



## PLAN AND CONTENTS <br> OF THE <br> BOOK OF WISDOM.

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The lacteals absorb the nutritious part of the food and carry it through the mesenteric glands to the chyle cyst. These glands modify the character of the current of chyle. They commence the work of organizing its materials into plastic cells. Reaching the chyle cyst, the milky liquid is carried up the thoracic duct, to the left side of the neek, where it is poured into the left subclavian vein. The chyle is thus mixed with the current of venous blood, and carried to the heart. Before tracing this farther, we must briefly consider the character of the chyle itself.

Our food contains three groups of elements:
First, the Proteid group, as gluten, albumen, fibrine and caseine. Each of these contain carbon, oxygen, hydrogen, and nitrogen, with lesser proportions of phosphorus, sulphur and mineral salts, as shown in the molecule of Bioplasm. The proteid group of food contains all the essential elements of nutrition. The tissues of the body have the same chemical composition, and they can all be formed from its materials.

Second, the Amyloid group includes starch, gum, sugar and the oils and fats. Each of these contains carbon, oxygen and hydrogen. They furnish elements to be used in forming the fats of the body, and for muscular action. In the process of digestion starch is changed to glucose before it can be assimilated.

Third, the Mineral group, including air, water and sodium chloride. Water contains oxygen and hydrogen, and air contains oxygen, nitrogen and traces of carbonic oxide.

A grain of wheat cut across, will show us how these elements are stored up in the food. The

of all the organs. Nutrition involves osmotic action, or the passage of liquids and gases through basement membranes, covered with epithelial cells.

The blood is sent to all parts of the body by the arteries, and it is returned to the heart through the veins and lymphatics.

The veins from the intestines, stomach, spleen and kidneys, unite to form the portal vein. This enters the liver, branches around the hepatic cells, and these separate the bile and sugar from the passing current. The venous blood then goes to the heart.

The kidneys separate urea, water and salts, from arterial blood. The perspiratory glands of the skin also eliminate part of the waste products of the system.

In the corpuscles of the kidneys, the Renal artery is seen to end in a tuft, within the Glomerulus. The latter is formed of layers of cells, which separate the secretion of the kidneys. This is passed along the uriniferous tube of each minute lobule, and thence into the pelvis of the kidney, and along the ureter to the bladder, to be finally eliminated from the body.

Motive System. The four hundred and seventy muscles of the human body are disposed in layers. They consist of bundles of minute cells ; as shown in Figure 1. They are attached to the bones as levers, and move them by contraction.

A current of nerve force is sent from the brain, or from other nerve centers, and this polarizes the muscle cells. One end of each cell is made negative, and the other end positive. When thus oppositely charged, the two ends approach each

SEPHERVA.
other, and thus the entire muscle is contracted or shortened about one-third. When the charge of nerve force is withdrawn, the cells return to their former position, and thus the whole muscle relaxes.

In the chart of the Nervous System, the large muscles of the upper arm are shown. The nerve is seen at BR, and the Biceps muscle is drawn with the cells immensely enlarged. This muscle, attached to the radius, at R , raises the forearm by its contraction.

The Skin presents an example of the nervous, nutritive and motive systems combined. Its protecting layers of the epidermis, and its elastic and contracting fibers, belong to the motive system. Its multitude of sensitive nerves are an important part of the nervous system. And its perspiratory, sebaceous and hair glands belong to the system of nutrition. The $5,000,000$ of pores in the skin form an extensive system of drainage for the waste matters of the body, and justify the importance attached to bathing and cleanliness.

The Nervous System. The large figure in the chart of the nervous system, exhibits a side view of the brain and a back view of the body.

The Nervous System includes the Brain, the Nutro-nerves, and the Sensi-motor nerves.

On the left side of the body the muscles of the back have been removed. This displays the chain of nerve centers and fibres which form the great sympathetic or Nutro system of nerves. These lie back of the heart, lungs, stomach and other digestive organs, and are on each side of the body. They govern the action of all these organs. Each of these centers also sends a bundle of fibres to the spinal cord, and receives one in turn. The

THE NERVOUS SYSTEM.
chief center of the nutro system, is the gasterus or solar plexus and ganglion, back of the Stomach, marked G. The Cardiacus is the center back of the heart, and the Pelvicus is the chief center of the pelvis.
Sensi-motors. The spinal cord consists of a vast multitude of fibres and cells. The motor fibres branch off to the muscles of the body, and the sensory fibres to the skin. Other bundles of sensory and motor fibres, like those in the face, branch direetly from the brain.

In the eye, the nerves terminate in rods and cones $1-10,000$ th of an inch in diameter. See figure 7. These vibrate to the different waves of light, and carry into the brain the picture formed on the black pigment of the eye. This is the vital part of vision.

The nerves in the ear are distributed to the otoliths or ear stones ; to the ends of the semi-circular canals; and to the vibrating fibres of Corti in the cochlea. These parts perceive the intensity, quality and pitch of sounds.

The nerves of Touch terminate in the microscopic papilla of the skin as seen in figure 6.

Centers. In all the centers of nervous action we find cells and fibres associated. The structure of these may be understood from figure 5 in the engraving of the Nervous System. This figure is magnified 350 diameters. Both the fibres and the cells, in the brain, have an average diameter of about the $1-1500$ th part of an inch. This would give at least $3,000,000,000$, in each hemisphere of the brain.

The nerve cell has a nucleus, surrounded by layers of membranes and granules, and traversed

by delicate prolongations of the fibres. From the cell processes extend and connect it with adjacent cells.

The nerve fibre, or to describe it more accurately, nerve tubule, contains a conducting substance, the axis cylinder, or band axis. A membrane encloses this axis, and is in turn surrounded by an insulating sheath. A part of the sheath has been cut away so as to show the axis. The tubule is filled with a conducting substance, because it is a current motion or nerve force, and not a liquid which is to be carried along its channel.

The sheath insulates the nerve current as it flows along the cylinder so that no part of the current may escape to the tubules which lie beside it. But when a current reaches a center, where the cells are, it may readily flow from one cell to another, both through the cell walls and through the processes which connect the cells with each other.

The nerve cells are like the magnetic battery, and the fibresare like the conducting wires of the telegraph.

The office of the nerve cells is to receive and retain impressions, and to originate or modify nerve force, while the fibres are the channels for its transmission.

Along these conducting tubes the waves of thought, of feeling, and of will, flow swiftly in delicate lines of living light. Touch your finger, and the current will flow up the nerves of the hand and arm until it reaches the cells of the spinal cord and the brain, and makes its impression on them. Then, and not till then, you are conscious that the finger has been touched.



the muscles. It radiates force to all of the mental organs and receives from them. The Striatum, like the Thalamus, is a mass of nerve cells, with fibers passing to, through, and from it.

The Thalamus, or back brain centre is the chicf point for receiving the incoming currents, containing the impressions which have been made on the organs of sense. All of the mental organs at their inner ends terminate in these two centers.

The Striatum and Thalamus thusstand between the mental organs on the one hand, and the outer world of sense and motion on the other. In passing through the centres the nerve force isusually modified, and more or less of all the impressions aro stored in them.

Below the brain, are collections of cells which form a great center through which the brain acts on the body and the body acts on the brain. It is named the Ceenter.

The cerebellum has a center of its own, and it is connected in action with the larger brain by a process of fibres. It chiefly forms the organ of mobility, controlling the muscles of locomotion.

Vital Trinities. In studying the table of vital functions, we shall perceive that each divides into three parts. One of these three is always central, and each of its two side members supports its action in a characteristic way. The general relation of the three is formal, static, and dynamic. For example, the state of the body is maintained by Nutrition; the form of its movements is determined by Nervation; and its dynamic expression is through Motation.

In some of these trinities, the form element is less marked. For example, Respiration divides


SEPHERVA.
TABULAR ANALYSIS OF LIFE.
MENTATION.
Ideation.
Thinking-Perception, Retention, Reflection.
Mentocept-Precept, Recept, Concept.
Theoration-Responding, Invention, Planning.
Feeling.
Sensation-Sentition, Gustation, Impression. Excitation-Pleasure, Consciousness, Pain. Loving-Association, Intercourse, Interchanging. Willing.
Occupation-Profession, Employment, Trade. Reflexing-Impulse, Stimulation, Depulse. Practicing-Conducting, Co-operation, Executing.

## VITATION.

Reproduction.
Ovulation-Menstruation, Blossoming, Ovoposition. Procreation--Copulation, Gestation, Engendering. Semination-Planting, Begetting, Sowing.
Nutrition.
Ingestion-Mastication, Deglutition, Insalivation.
Assimilation--Digestion, Cystation, Respiration.
Excretion-Perspiration, Defecation, Urination.
Circulation.
Lymphation-Chylation, Absorption, Fibrination.
Arteriation--Systolation, Pulsation, Diastolation.
Veination--Osmosis, Capilliation, Recursion.

## MOTATION

Exmentation.
Speaking-Articulation, Utterance, Singing.
Gesturing--Orating, Caressing, Directing.
Playing-Gaming, Dancing, Sporting.
Locomotion.
Volation-Beating, Air-floating, Soaring.
Pedestation-Walking, Running, Leaping.
Natation-Paddling, Floating, Sailing
Working.
Handling-Fingering, Moulding, Tooling
Holding-Grasping, Clasping, Seizing.
Moving-Pulling, Striking, Pushing.





CHAPTER SECOND.
the trinity.
From the motes that dance in the sunbeam to the central sun of our universe, every object displays a three fold nature. The far reaching analysis of modern science and profound search of historians, have proved that the intuitions of the old thinkers in regard to sacred Numbers had a solid basis in the reality of things.

Modern chemistry rests upon the law of Definite Proportions. That law teaches that all the atoms of matter are grouped according to fixed numbers. Each kind of atom has a certain number of poles or points of attraction, and these limit the number and kind of other atoms with which it may unite. Thus in the molecule of Bioplasm the carbon atom in the center is shown with six poles, and at each one of these is found another kind of atom; of oxygen, of nitrogen, of hydrogen, \&c.

If we turn to any other branch of physical science we shall find the law of definite numbers ruling with absolute sway. No object is too minute and none too magnificent to be linked in its measured harmonies. The mechanical forces are of three kinds,-the Direct, the Lever, and the Inclined plane. The direct includes the pull, the blow, and the push. The lever in its simplest form has three elements, the fulcrum, weight and power.

The application of this law to the entire range of human knowledge, will be seen in the extended tables of Universal Synthesis.

Meaning of Numbers. Without entering into elaborate proofs, the meaning of the more important numbers is given here.

1. One is the number of unity, the beginning of every series, and the end of every synthesis.
2. Two is the number of duality. All the forces of nature are dual or polar. They are positive and receptive, masculine aud feminine, active and passive, earthly and heavenly. By an inverse meaning, two is also the number of uncertainty or dubiety, as when we do not know which of two things to choose. By direct meaning, two stands.
for certainty or assurance, as the mouth of two witnesses. The repetition of a number intensifies its meaning. 777 shows the fullest measure of meaning in seven.
3. Three is the number of simple completeness, the Trinity. In every actual unit there is also a trinity. The two wings of a trinity are dual ; three includes two. The two wings without a center would be easily divided, the center unites them, makes the three a unit.

In the indivisible atoms of matter there are three dimensions, length, breadth and thickness. The organic cell has three elements, cell-wall, nucleus, and circulating contents.
4. Four represents simple organization, or structure, the crossing of two lines of force at right angles. In the crystal, the poles A, B, C, D, are its lines of construction. In Segmentation, the organic cell is polarized by the sperm-cell, and divided into four parts, A, B, C, E. Four is the number of Life, and of the Family-a father and mother, a son and a daughter. ${ }^{\text {a }}$ It represents the heart with its four chambers; the river of life with its four heads.
12. Twelve is produced when two axial lines, like the major and the minor axis in the brain, each terminates in a trinity. It includes a family of trinities, four threes. It is the high number of organized, spiritual perfection. It is the mathematical basis of construction in the human head, and in the human form, as will be shown in the next chapter. It is the number of Social Structure and of the New Jerusalem, the center of all earthly interests.
5 and 7 . The number twelve divides into Five,
as its material or lower side; and Seven, as its higher or spiritual side. In the head, the brain is seven-twelfths of the circle, and the face and body, its servants, are five-twelfths. In the brain, the fibres of seven groups point upward and those of five groups point downward. Five is the number of the hand, the four fingers with the thumb as a pivot of action. Hence five is the number of the covenant and of material law. Seven includes two trinities with one as a pivot to unite them.
6. Six has two trinities, but without a pivot. It stands for physical completeness, but lacks the spiritual bond of unity found in seven. 666 is the number of "the beast," of man under the reign of his lower faculties.
8. Eight contains twice four, the nu nber of life. Hence it indicates the renewal of life, the resurrection, or a union of the physical and the spiritual life. The two fours which form eight are incomplete, or lack dynamic power, until the third four is added, and this makes twelve. It is a general law that the Even numbers form the Structural Series, while the Odd numbers form the Dynamic Series, or, that relating to the exertion of force. The trinity is an odd number, and in the structure of the inind, the trinity of Wisdom, Love, and Will is made even by duplicating it in the two hemispheres of the brain. Seven candle-sticks symbolize spiritual force, the dynamic work of light.
9. Nine is the number of Judgment, and of Labor. Its three trinities count a triangle, three sides of a square, the builder's measure of judgment. Labor is the ninth group, counting from the base of the brain. The date' 1881 would read
"The double judgment of the earthly and the heavenly of the past, and the judgment by judgment of the present. This number reads the same backwards and forwards, it is the dividing line between the past and the future.
10. Ten is the complete number of material law, the duplicate of five.
11. Eleven indicates incompleteness, uncertainty, imperfection, or disorganization. Hence thirty-three, the years of Jesus, shows threefold uncertainty, and after three times six centuries, he is still without a kingdom.
13. Thirteen contains twelve, with one for a pivot. The twelve groups of mental faculties pivot upon the brain centers. The twelve masculine faculties have their pivot in the back center or Thalamus, and the twelve feminine ones on the front center or Striatum. The twelve assistant faculties pivot in the Ucenter. The twelve tribes in the New Jerusalem have their center in the great Temple. The twelve Princes of Israel had their pivot in the King, High Priest, or Judge. In every 13, the thirteenth number must be central or pivotal. For if they are all of equal rank, there can be no true balancing of parts, all will be discord. If we look at the twelve-rayed sun, we see that its points balance each other in every direction. But if we draw one with thirteen rays, no two of them will balance each other. We see from this and from the law of the trinity, that the doctrine of Pivotal Numbers assumes a high degree of importance. But it was quite unknown to the older writers on numbers.
26. Twenty-six contains two twelves with a pivot for each. It represents the twenty-four

these numbers. These regular periods are best shown in the chronological tables.

The Trinity in Mind.-The primary analysis of mental phenomena gives three divisions, Thought, Feeling, and Volition; or Wisdom, Love, and Will, These spring from the faculties of Intellect, Affection, and Expression. The intellect is directive, affection is attractive, and volition is impulsive.

Each of these classes is based upen three divisions of the bodily functions. The intellect acts in close sympathy with the entire nervous system; affection acts with the organs of nutrition ; and volition governs the motive system.

The division of the classes into twelve groups and thirty-six faculties is given in the table. Each faculty again subdivides into three parts. This analysis is sufficiently minute for the purposes of art and science.

The groups of Sensation, Culture, and Impulsion are transitional in character, and this leaves a trinity of groups in each class.

The Intellect is formal, it determines the forms of knowlege, of feeling, and of action. The Affections are static, they maintain and perpetuate the race and unity of man. The Will is dynamic, it applies the powers of man in all his social and physical activities.

Brain and Body.-The brain is the great central organ of the mind, of Thought, Feeling and Will. We know this, first, because the nerves of feeling and motion, from all parts of the body, all lead to and from the brain; second, because in vivisection the removal of the brain destroys all mental manifestations, but not the bodily life of


## THE HUMAN FACE.

is found in the fact that the body is much more an instrument of feeling than it is of thought.

From the summit of mental to the base of bodily life, we have a sympathetic and responsive scale of forces. Touch any mental string in this harp of life, and instantly some part of the body responds with its sympathetic vibration.

The vibrations of mental excitement are larger and more noticeable in the body than in the corresponding parts of the brain. The heart throbs high under the impulse of love; but beats with irregular and arrested action when fear penetrates the soul. The whole language of gesture illustrates mental and bodily sympathies. They justify the instinctive sense which leads men to speak of Affection as the "Heart." We may still use the word heart in this way, if we will remember that the brain, the face, and the body, each contain the same scale of powers, pitched upon higher and lower keys.

The organs of the brain gradually change in the character of their functions as we pass from any given point to an entirely antagonistic region. There are no sharp lines of demarcation between them, and the lines thus drawn in the map of the organs are for the convenience of study.

The Human Face.-If the mental faculties were not connected with deflnite parts of the face, then the face could possess neither expression nor beauty. A look which indicated love at one moment, might indicate hate the very next. But the face is no such bundle of contradictions.

The lines on the face in the map of the organs show its principal divisions. These also correspond with the physiological functions of the face.



Signs of Affection.-Faith and Love elevate the middle of the eyebrow, above Amity and Reform. Farther outward, the elevation indicates Hope and Zeal. Hope also slightly raises the corners of the mouth. A noble brow is one where all of these are large.

The faculties of Sex love, such as Devotion, Fidelity, and Caressing, have their signs in the fullness and breadth of the red part of the lips. Persons with thin lips may, however, have large Fraternity and Kindness, and thus be kind and genial.

Parental and filial love elevate the inner end of the eyebrow, and are also connected with the lips near the center. Reverence turns the eye upward, and Modesty causes a drooping of the eyelids. Patriotism presses the lower lip against the upper, midway between the center and the corner.

The signs of the senses in the face are to be judged from their respective organs. Thus, development and fine structure of the mouth, especially of the tongue and lips, indicate the power and fineness of the sense of Taste. That of Touch has also its facial index in the lips, and its general index in the perfection of the skin. The development of the sense of Smell may be estimated by the perfection of structure of the nose; and that of hearing and vision by the same perfection in the ear and the eye.

The general quantity of attractive force in a person is indicated by the softness, fineness, and delicacy of the skin, and by the mobility and pliancy of the spine. Repulsive force is indicated by the length, strength, straitness, and stiffness
of the spine. This quality is stronger in man, as attractiveness is in woman.

The downward length of the lower jaw indicates the faculties of Self-control, Integrity, Stability, and Caution. The breadth of the face at these points is thought to indicate the power of these faculties of the will to express affection. Mental control is indicated by an upright fulness back of the mouth.

Dignity and Iaudation are connected with the musclas which elevate the upper lip and the wing of the nose. Laudation lifts the upper lip, as in the smile of approval. Dignity produces a muscular fulness at the place marked, and liberty below this.

Aggression, Protection, and Self-defense project the ridge of the nose at the upper, the middle, and the lower parts. These are small in the nose of the child; full in the Greek nose, and large in the Aquiline and Roman. Economy and Reserve give breadth to the nose at the place marked.

The intellect of a child is active, but like its nose, is not yet developed. The Greek nose has well developed signs of intellect, and the end of the nose is finely chiseled. It indicates refinement, taste, and a love of art. The Roman nose belongs to an executive, powerful, and powerloving character. It was common among the old Romans, and hence the name. The aquiline or Jewish nose indicates the commercial spirit, shrewdness, and combative energy and perseverance.

Destruction gives a fulness below the back of the mouth, and Aversion near its center. Contempt protrudes the lower lip.

Indications of the Eye.-Large eyes indicate




## LAW OF THE ELLIPSE.

physical existence of every individual depends upon the reception of food and drink, through appetite. From these materials of food every organ of the body is continually formed, and its action is maintained. The solid bones and the thinking brain are alike built up from these food materials. So much for the existence of the individual. But the existencs of the race or species depends upon the union of the sexes through Sexlove. Through this love, the child receives the materials for the original formation of every part of its physical organism. Thus Sexlove becomes the high material pivot of our existence, as the faculty of Appetite is the lower one. No other faculties can affect our mental and physical happiness so directly and so profoundiy as these. From no others can we receive such exquisite and all-pervading pleasure as these give when they act in harmony, or such misery as these bring when in discord. In the eighth chapter, we shall find that Sexlove determines the classification of all offices and labors.

In the middle ellipse, the upper end of its minor axis is formed by the faculties of Faith, Love, and Hope. At its lower end are those of Feeling,Heat and Impression. These faculties are the channels through which we receive universal forces, even as we receive materials through the first ellipse.

The sense of Touch or Feeling, at the lower end of this axis, is the common standard for comparing all the other senses. Through this sense we perceive mathematical relations, which are the basis of all science. Through Faith and Love, at the upper end of this axis, we are related to the life of the Deity and to the collective life of Huthanity, to the spiritual forces of the universe...f?

shape of its features and of its brain. And we know that either temporary or permanent changes of feeling or of character will change the curves of the head, the face, and the body. It is mental forces then, which cause the brain to be an ellipse, and consequently the mental faculties must obey the mathematical law of this curve.

Sex in the Ellipse.-The forces of the two sexes in love act in strict harmony with the elliptical law of variation. The Striatum is dominantly masculine and the Thalamus feminine.

In their highest expression-that of originating a new being-the masculine aud feminine forces are equal. From that moment forward, during the whole period of the child's prenatal development, the feminine forces increase in quantity and intensity, and the masculine diminish. After the direct parental functions are accomplished, the feminine forces slowly return to their equipoise with the masculine.

The affectional forces of the two sexes pass through elliptical variations of slighter extent when not engaged in parental relations. This law gires to sexlove-within its duality-a wide variety of emotion, the infinite charm of perpetual renewal.
Three Great Currents of nerve force sweep around the brain ellipses. They flow from cell to cell, and taking in their path all the principal organs, they awaken or excite these faculties in a definite order.

A large part of all the impressions received through the senses are conveyed along the fibres to the Thalamus and Striatum. On figure 3 of the measure of man, we may trace the course and ef-


Observation concentrutes force from all directions. At Mobility a part of the currents pass to the body and thence make their exit from the system.
All of the principal organs of the brain are located on the line of these ellipses. So that wherever an impression may be made on the brain, or an action may be started, it will be carried in these currents to Memory, Observation, Reason, and Inspiration. We are thus made conscious of every mental action, and can reason about its relations.

This law of the ellipse wonld alone determine that the faculties are correctly located.

The course of these currents determines that in mental action, there is first Sensation, and this is followed, i! orderly succession, by Perception, Memory, Reflection, Desire, and practical Action. Experience proves to us that this is just the order in which these mental processes normally succeed each other. But in cases of insanity the currents flow in irregular or reversed directions, and the ideas and actions are illogical and disorderly.

Radius Vector. A current of nerve force starting from Observation and flowing around the central ellipse, in the direction of Inspiration, Amity, Faith, Stability, Dignity and Liberty, would become slower and slower as it receded from Observation, its point nearest to its focus in the Thalamus. After the current reached Liberty, its speed would gradually increase toward Appetite and Feeling, until it reached its starting point. This variation corresponds to the law of radius vector of the planets. The shorter the fibres of any organ, the less will be the time required to perform the circuit.


only two ranges which form this curve, and they are the only ones which establish universal relations.

In the map of the body, hyperbolic curves are formed by the ambitious faculties at the shoulder and the same curve is repeated by the analogous group of impulsion in the thigh. This curve is formed by the faculties of Will on the chin, and lower maxilla.

The straight line is a monotone. It does not possess that variation in the direction of line which is essential to beauty of curvation. It can occur but once in a beautiful form, and that is in the ridge of the nose. The circle, too, is a monotone, and only occurs in the iris of the eye.

Beauty of the Form. The curves of the head, face, and body seldom terminate abruptly, but gracefully blend with each other, like the organs of the brain. The number and perfect arrangement of these curves gives to the human form its wonderful beauty, so far surpassing that of all other physical objects that we cannot conceive of anything more beautiful ; and our highest inspirations attribute the same form to beings in realms of existence more exhalted than our own.

The most beautiful face and figure is one in which all of the faculties are the most fully and symmetrically developed. If any organs or signs of a curve are deficient in size, this will destroy the regularity, and consequently the beauty of the curve. The most beautiful living object is one having the fullest and freest manifestation of life. For Life is a principle of unity, and the more complete the relation and harmony of its parts, the more perfect is the manifestation of life, in any
-
liring being. Living creatures sppear ugly and deformed when the free play of life seems obstructed in them.

A homely face may have many of the higher faculties well developed, and express the goodness which comes from these, but it cannot belong to a complete and well-rounded character.

The angular character is really much better adapted to a discordant and defective civilization than a more symmetrical character would be. It sometimes happens that beautiful persons become perverted; and many persons have been called hiandsome who were really lacking in the higher indications and elements of beauty.

In the lowest of the animals, the simplest and fewest of the geometric carves prevail. The curves become more numerous and complex as we ascend the scale of life until we reach man. The divine beauty of the human form is expressed through one hundred and forty-four of these curves, and these are duplicated in its bi-latera! symmetry. Thirty-six of these curves belong to the head and face.

The more beautiful curves-the ellipse and its modification, the parabola-are repeated many times. The bosom of woman-the ivory throne of love, set with carnation, garnet, or amethyst-derives its exquisite beauty of form from both the ellipse and the parabola.

Proportions. The curves which make up the human form not only bear fixed relations to each other as regards their position, but also in regard to their proportional size. The upper figure in the Measure of Man will illustrate these proportions

If we draw twelve squares, in each direction,
these squares will accurately divide off the proportion of the various parts of the human form. This divine measure of a man was rediscovered in modern times by the artist Page, from whom our drawing is copied.

The extended arms reach as tar as the person is tall : the heighth and breadth are equal, as was said of the Celestial city.

These divisions of the form are not simply external, they belong to the bones, the muscles, and the viscera. They are exemplified in every well proportioned adult person, and in the great works of ancient and modern statuary.

The lowest square includes the foot and ancle ; the second is the lower leg; the third its calf; the fourth is the knee; the fifth the upper leg; the sixth is the thigh; the seventh is the pelvis; the eighth is the abdomen; ninth, the stomach and liver; the tenth is the breast; the eleventh is the neck; and the twelfth is the brain. Its width also forms a twelfth. The arm is five-twelfths, the hand is one.

When we measure the head alone, we still find that a scale ot twelve is the only one that will accurately fitits various parts. In the second figure, of the measure of man this scale is illustrated. A point, F , at the opening of the ear lies against the great physiological center of the nervous system as described in the second chapter. Drawing one line from this point to the top, and another to the lower end of the nose, these two lines, 1 and 2 , include an angle of thirty degrees, or one-twelfth of a circle. Extending these same sized angles all the way around the head, there will be three in front, three above, three behind, and three below.







SEPHERVA.
In the atom of spirit on the engraving of the mental mechanism the arrows show the direction of these circular currents of polarity. The rays show its straight polar lines.

The reason why spirit has no weight or gravity is because its atoms are smaller than the length of the waves of gravity, and therefore these waves cannot set the atoms of spirit into vibration, and consequently the attraction of gravitation has no effect on them. Suppose, for example, that the waves of gravity, in our engraving, were the 50 ,000 th part of an inch in length, while the atoms of spirit were only the 70,000 th of an inch. It is evident that one of these long waves could not vibrate within the smaller atom of spirit.

But the waves of spirit atoms may unite with each other, and according to the law of intensity, they may produce waves large enough to affect and set in vibration the atoms of matter. Thus in figure 2, the waves A and B unite at c , and the resulting wave is twice as large as when they were separate.

Every atom has its own inherent vibrations. These are a part of its essential properties. It may have different forms of waves at its different poles, and thus each pole possesses its special kind of attraction, and may exert its force over a special kind of matter. In the molecule of bioplasm the atom of carbon, in the center, attracts the atom of hydrogen at one, and that of nitrogen at another pole.

The atoms of spirit possess forms quite as distinet and persistent as those of matter. This has nothing to do with the question of their possessing
weight, as was explained above. If spirit atoms have form they must of necessity have space. For we cannot conceive a form, a circle or triangle for instance, without there being space between its two sides. It does not follow that the ultimate atoms can be divided because they have parts, though some thinkers have tried to suppose it did.

Waves of Nerve Force.-The radiant waves from each organ of the brain and from each part of the body, have their own distinctive character. They differ in form, in length, and in altitude.

The engravings of the Mental Mechanism show the rounded form of the waves of Memory; the constructive waves of Reason; the articulated waves of Amity or Friendship ; the smooth waves of Religion; the looped waves of Sexlove; the an-gulo-curves of Dignity; the sharp angles from Integrity and Liberty; the acute angles of Defense, and the hooked waves of Aversion.

These examples show that the form of the waves corresponds precisely with the character of the faculties from which they are radiated. The smooth, attractive waves of Affection are in broad and appropriate contrast to the harsh, repulsive waves of the Defensive faculties. Our very thoughts and feelings have their distinctive shapes and impress them upon the outflowing waves. The priekling sensations under the excitement of anger are very different from the soft thrills of affection. An instinctive preception of these truths has determined the figures of speech used in all languages. Men never speak of love as rough, or of anger as being smooth.
The nerve-force usually travels along its special

blending is complete, we may read the very thoughts of our associates.

These exchanges are constantly taking place and all persons feel their influence, whether such persons are called sensitive or not. The highest effort of clairvovance is but the exaltation of this nerve-sense, which all persons exercise in a greater or less degree.

Mesmerism. Mesmer and his followers have shown that the voluntary exertion of nerve-force in one person has enabled him for a time to control the muscular movements and apparently the whole thoughts of another. The operator makes passes over his subject, who must remain in a receptive condition, until his nerve-force has sufficiently penetrated the latter. Then whatever the operator may think or wish, the same thing is thought and wished by the subject. These experiments are abnormal uses of the nerve-force, but they serve to vividly illustrate its transfer between persons.

Mental Telegraph.-The nerve-force may extend between those who are great distances apart, and convey expressions of thought and emotion even more exact than by words. In these cases of mental telegraphing, the nerve-force may be passed through the air, or be conducted along solid objects, as along a road where a person has traveled. Many obstacles interfere with this method of communication. Every advance in culture and refinement will make its use more frequent and certain.

The nerve-force from large and active organs extends farther than that from small and inactive ones. So does that from the front and upper
organs when compared with that from those of the lower and backhead. From Kindness, for example, it reaches farther than from Defence. The latter points to the earth and so must soon stop. Anger, hate, and all the evil passions die out sooner than love and the higher emotions. The reign of evil is limited by this law of brain-structure. The passion for military glory will be outgrown, while the beneficient triumphs of the intellect survive through all generations.

It is through these vital currents that the whole human race is to be united in one vast composite life. The high sensitiveness which would belong to such a universal sympathy, implies the entire dominance of the nobler faculties of man's nature. The invention of the magnetic telegraph was an external index that the development of man had reached nearly to a point where it would be possible to unite all the nations in bonds of amity. The telegraph was the physical nervous system of the nations.

The radiant nerve-force obeys the general laws of radiant forces. It has been carefully studied by competent observers, and the results are presented here without any attempt to state the multitude of separate facts upon which they rest.

All forces are convertible, transferrible, or counteractive, in measured proportions. A definite quantity of one always produces, or else counteracts, a definite quantity of another. In the steam engine, heat is converted iuto mechanical motion. When a body falls and strikes the earth. heat is developed-gravity has been converted into heat.

In no part of nature is there any such thing as
absolute rest. Matter, Spirit and Force are eternal. Either may assume a thousand complex forms in succession, but neither can ever be destroyed. To-day we behold the stately tree of the forest; a few centuries hence it will have fallen to decay, and its tissues be converted into gases or into the soil. Nay, before our very eyes the wonderful transformation is constantly taking place, but not an atom has been destroyed, not any force has been wasted. They have disappeared in one, to re-appear in another form. The entire quantity of matter and of motion remains always the same in the universe. We cannot take any atom of matter and by any possibility divest it of motion. For example, no atom of matter was ever found that did not possess gravity, or the power of movement toward other atoms.

Control of the Will.-The will appears to have a certain amount of control over these out-going currents. By thinking and steadily exerting the will on a particular person, the nerve currents may be directed towards him more definitely and effectively. Within the brain itself the will displays the same power in directing the currents of force. We can, by an effort of the will, call one faculty or another into activity, just as we choose. In the brain, however, the mechanism is so regular that this object is accomplished without difficulty and without our notice.

Modification of Currents.-A current flowing from an organ in any direction over other organs. mixes with the force peculiar to each, and is correspondingly modified. For instance, take a current starting from Excitement, the lower part of Caution, toward Stability. The harsh, angular
character possessed by the waves when they start from Excitement is slightly modified by mingling with the force from Caution. At Patriotism, its forces make them much more quiet and smooth. Still further on, the blending nerve-force of Integrity imparts to them a more steady and even strength, and that of Perseverance gives them greater uniformity. At the end of their course, Stability or Firmness imparts its gentle and firm influence. The force of each organ tends to make the passing current resemble itself in character. If the intermediate organs are small and inactive, the current would pass around them, and over larger and more active ones.

Interference of Brain Waves.-A current of nerve-force from one organ may meet and neutralize that from another by interference. This is according to a general law of all the forces, that the crests of the waves in one correspond to those of the other, they are increased in their intensity ; but when the crests of one fall into the depression of the other, they neutralize each other.
The new resulting force in the brain may be readily estimated by considering what the two organs were, and over what organ the currents met. A current from Parenity and one from Laudation might meet and neutralize each other over a large organ of Caution. The new force would be appropriated by Caution, and would probably impart to the organ a pleasing feeling of tender care.

Opposing currents are constantly meeting and being converted where no interference occurs. The organs of Imagination, Im, are located at the junction of the Reflective, the Receptive, Sexal

## ADHESION OF IMPRESSIONS.

and Parental groups. It follows that a multitude of minor currents must meet and be converted over this organ. Out of these conversions would naturally spring the whole system of metaphors and figures of speech which form so large a part of all languages. For if the nerve force of two organs may be converted into each other, then the forms of speech appropriate to each may be exchanged, as in the case of all metaphors.

Adhesion of Impressions. When a new impression is made on the mind, it sets up its own peculiar vibration of the fibres and cells. Now if the mind already contains an impression which was in part similar to this new one, then some of the fibres have already vibrated in the same manner as the new impression would make them. According to a general law of all action, they could repeat their old vibrations more easily than they were produced at first. Hence new ideas tend to set in action those fibres and cells which have already responded to similar ideas, and thus similar ideas and feelings are stored up in the same parts of the brain. This fact is the basis of the important law of Association in memory and thinking.

If each new fact and new impression, as it comes in to the mind, is compared with those which are already there, and the mind decides which of the old ones it resembles most; then the new impresiion will be made on the cells which are adjacent to those which contain that old impression which is most like it.

As any excitement of one cluster of nerve cells will extend to and excite adjacent ones, it is clear that if the impressions of similar facts be made


But there is a little force expended in making the transfer ; consequently, it is never complete, and the mental impressions gradually lose their distinctness and intensity. Probably, many times the new impressions received by the mind are superimposed upon others, and this would impair their distinctness.

The organ of Memory is a general storehouse, but each mental faculty also retains or remembers its own kind of impressions. Thus the organ of Form remembers images, and that of Amity retains the impressions of friendship.

Nerve and Muscular Force. The nerve-force may be converted into either of the other forces. Whenever a muscle contracts, nerve-force has been sent to it and expended. Let a person of studious and sedentary habits engage in vigorous muscular labor, and he will quickly realize that the brain is using up its nerve-force in the effort, for his brain will soon feel exhausted.

There is an exact relation between the amount of nerve-force expended and the amount of mechanical force displayed in the contraction of the muscle. This is clearly proved by the fact that we know just how much nerve-force to expend in order to make the muscles contract to any required extent. All mechanic arts depend upon this certainty. In the acts of cutting, sawing, painting, and ten thousand acts of our daily life, it is necessary that the muscles contract just so far and no farther.

Waves in Dreaming.-In the act of dreaming, the fragments of mental impressions and images float about, and touching each other, they blend and adhere to each other in a disorderly and patch-

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work manner. During sleep, the great currents flow around the ellipses with exceeding slowness, and the minor and cross currents are thus allowed to dominate. The regular order of thought is suspended. Sensation, perception, memory, reflection, desire and action, no longer succeed each other in the manner of our waking hours. But many times in sleep the mind is especially sensitive and passive, and then clear impressions of ideas or of facts, may be received from other minds, or even from our own surroundings.

If a large current attempts to travel over a nerve which is too small for it, then one of two things may happen. It may be converted into heat, and we all know that a strong nervous current may produce a glow of warmth all through the body. Or it may be converted into a galvanic current, and then the person will feel those thrills which all have experienced under excitement.

Colors of Nerve-Force. Each organ of the brain radiates a nerve-light of a distinctive color. Thus, from Ambition the light may be bright or dull, clear or impure in tone, but it will always be a crimson or reddish purple. These colors are shown in the full-page view of the nerve spheres. The author of this book was the first person who analyzed these colors and traced them to their source in the separate groups. This was done, and the proper diagrams painted, in the Hebrew year 3445 .

From the following table these colors may be readily learned, and also from the colored map of the mental organs in the second chapter, and from the colored plan of the New Jerusalem.
RECEPTION,
Emerald.
REFLECTION,
Azure.
RETENTION,
Blue.
PERCEPTION,
Grey.

$$
\begin{array}{cc}
\text { RELIGION, } & \text { ambition, } \\
\text { Lemon. } & \text { Crimson. } \\
\text { Sexation, } & \text { coaction, } \\
\text { Orange. } & \text { Scarlet. } \\
\text { PARENTION, } & \text { DEFENSION, } \\
\text { Amber. } & \text { Red. } \\
\text { SENSATION, } & \text { impulion, } \\
\text { Salmon. } & \text { Maroon. }
\end{array}
$$ These facts furnish a clear guide for the application of color in costume, architecture and landscape. Every color exerts a definite influence on that group of mental faculties which radiates a similar color. The world of color beauty, in nature and art, becomes full of living significance. Some of these applications are given in the twelfth chapter. The colors of the groups are shown in the plan of the New Jerusalem.

The nerve-force is finer than ordinary sunlight, and it is hence impossible to represent its extreme beauty and delicacy in a painting or an engraving.

The nerve-force bears closer analogies to light than to any other of the forces. It has often been seen by sensitives, under a slightly increased intensity of common vision. The rods and cones of the eye become more tense under some forms of mental excitement and consequently they vibrate to the fine waves of nerve force. It may then appear as a soft, diffused light around the head and form, or it may shoot out in broad glowing bands, like the aurora; or it may form iridescent clouds, at a greater or less distance from the person. The light from the seven upper groups often appears like a crown of spiritual brightness, decorated with flaming jewels
Intensity of Colors.-When an organ is excited

plate for a short time, and then remove it, the image of the key may be evoked by heating the plate. And this may be done years after the contact. Whether conscious or not, the objects of the universe are thus continually writing their history in these marvellous pictures.
The nerve cells of the brain and of the various nerve centers, are constituted on purpose to receive impressions. The extent of their impressibility is very great, and the results belong to a large part of our conscious life.
By coming in contact with an object, a sensitive person may perceive and describe the impression it has received and retained. For example, by holding a manuscript letter in gentle contact with the forehead or the hand, the whole character, personal appearance, and even the thoughts of the writer at the time of writing, may be faithfully described.

A fossil plant or animal, examined in this way, gives up a faithful picture of its ancient surroundings, in prehistoric ages. In the experiments made by Denton, this was done again and again.
It was through contact impressions, received through different parts of the brain, that the true location of the mental organs was finally discovered in the year 1841. These experiments, made by Buchanan, were numerous and deeisive.

Here in a paragraph, is the statement of the method in the language of its discoverer: "CoNcentrative Excitement.-This is the scientific demonstration of cerebral functions, the method which I discovered in 1841, of exciting the cerebral functions to compel them to manifest their functions. The application of heat and cold to

and good in any locality fills the place with a nerve-sphere of light which may last for years. Such a luminous mental sphere is highly favorable to clearness of thought and social harmony. It is a part of human destiny to surround, in this way, the whole earth with the living glory of truth and love, its true and final spiritual atmosphere.

This law teaches us that we are responsible to our fellow beings for every thought and feeling which we entertain, as well as for every action which we perform. The silent waves of mental force vibrate from soul to soul. They unite us all by the inseparable links of a composite spiritual life.





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and selfish in manners and conduct, but when acting in conjunction with the opposite group of Amity, as they should do, than we have a careful regard for our own rights, but are careful to consider that our own rights are bound up in the interest and happiness of our fellow-beings.

The organs of repulsion, which point downward and backward, press against the earth, and thus push us upward and forward at every step. Their force thus acts in concert with that of the attractive organs in front.

In estimating the character of any person by the size of the organs, we must carefully take into account the opposite tendencies of these polar faculties. Thus a person may have very large Pride, and yet be modest and deferential through large Modesty and Reverence. When an organ and its polate are both small, the person will exhibit no decided tendencies in either direction. A person with small Kindness and small Economy would be neither a liberal nor a miser. His character would be negative in both respects. From the table of Mental Chords, the student can easily make these applications of the law.

Zones of Co-operation. It is a law that the organs all point toward their objects of relation. Thus the social organs point forward toward our associates and friends; the Perceptives point down toward the earth, which we are observing; and so of the rest. But the organs of the brain are, many of them, arranged so that different organs have the same, or almost the same, direction. As a consequence of this, they should have similar objects of relation ; and such is the case. These organs occupy two parallel zones, and may be

## ZONES OF CO-OPERATION.

illustrated by the initial engraving. It represents an upright cross section of the brain, from right to left. We are looking at this view from behind. The fibres of Stability, at S, in the left hemisphere curve over toward the right. They take nearly the same direction as those of Control, C, in the right hemisphere. They must have similar objects of relation. The calmness and fortitude given by Stability are sustained by the co-operation of Control, which gives restraint and elevated caution. The two faculties are analogues.

In this engraving, the fibres of Integrity, at I, in one hemisphere, point in the same direction as those of this faculty in the other. At B, the fibres of Baseness are seen pointing exactly opposite to those of Integrity.

In the table of mental chords the most important of the co-operating organs, just described, will be found.
Where the hemispheres lie against and touch each other. is another zone. still more interior. Its faculties echo in a less definite way those of the outer zone.

Third Degree. This unites all of the faculties in pairs. In the table of mental faculties, the first and second one in each trinity form a pair.

The contrast between the two members of a pair is less strongly marked than in the other degrees. In some cases it required a most extended and careful analysis to discriminate them. The two are located near each other, and never act in antagonism.

The organ of Dignity is bold, positive, masculine, and impressive, tending to keep those upon whom it acts at a respectful distance, The organ




TABLE OF MENTAL CHORDS

These polar organs of the first degree, point in opposite directions, and display the most siriking eontrasts of action. Thus Amity attracts, but Defence repels. The repulsive organ is placed first in eacb contrast.

| Energy | and | Feeling, | Secrecy and | Cor |
| :---: | :---: | :---: | :---: | :---: |
| Control |  | Appetite | Aversion " | Sexation |
| Courage | ، | Fear. | Destruct'n "6 | Love |
| Mobility | c | Patriotism. | Defense " | Amity. |
| Control | '، | Mobility. | Aggress'n | Reform. |
| Economy | '6 | Kindness. | Liberty | Serving |
| Dignity | ، | Modesty. | Integrity | Destruction. |

The organs compared in this table occupy zones of parallel direction in the two hemispheres. Thus firmness in one hemisphere, points in a direction parallel to that of control in the other. They are analogous, and they co-operate and exchange functions.

| unctions. | and | Construct'n. | Love and | Reverence. |
| :--- | :--- | :--- | :--- | :--- |
| Form |  |  |  |  |
| Observat'n | I | Impression. | Stability | " |
| Control. |  |  |  |  |

An organ may respond to, and exchange functions with, the third, fifth, or seventh one above or below it., and it also co-operates with those in front and back of itself. This action correponds to that of thirds, fifths and octaves in music.

## THIRDS.

| For | and | N | Integrity | d | Liberty. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Reason | ، | Col | Parenity | 6 | P |
| Memory | ، | Imitatio | Fidelity | '6 |  |
| Construct'n | n ${ }^{6}$ | Words. | Caution | ، 6 |  |
| Faith | ، | Ho | Defension | ،6 |  |
| Sensation | ، | Sexation | Parention |  | Religion. |

FIFTHS.

| Color | and | Truth. | Feeling | and | Ze |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Form | " | Order. | Serving | '، | Victory. |
| Words | " | Imagination | Reverence | ، | Faith. |
| Patriotism | " | Love. | Reason | '6 | Control. |
| Impression |  | Devotion. | Destruction | ، | Integrity |





aetions as will gratify our cwn affections, and benefit our asmociates and the world. Passing on to the organs of Expression in the back head, the current stimulates these to activity, and they control the muscles to produce the bodily movements necmasy to carry our ideas and plans into practical action.

The Serisitive group is the great portal of entrance for impressions, and the Impulsive group is the door of exit, through which they are finally ejected from the mental temple.

In the above brief description we have the order in which mental action must normally take place when the exciting cause is outside of ourselves. First there must be an Impression on the nerves. This part is physiological, not mental, action. Then in the first mental step we have a Sensation; next there is Perception ; then Memory or Retention; next Reflection or Reason; then there are Social impulses and desires; and lastly there is Volition or Will, the practical execution of ideas and purposes. When a current starts within the brain, from the action of the mind upon its already accumulated materials, then it may commence in Observation, Memory, Reason, Amity or any other point.
A Mental Act. While currents of nerve-force are flowing through the cells around the ellipses, other currents are flowing over the fibres, to and from the centers. The combined action of these currents may be well illustrated by a single act, as for example, that of Eating

The impression of want from the stomach passes up the nerves to the Thalamus, and across the fibres $\mathrm{c} \times$ to the Striatum. From this centre the


Language is full of expressions which illustrate these balances. Thus Truth and Fortitude respond, and we say "truthful and serene." Mirth and Playfulness balance, and are expressed in the phrase, "playful and witty." Memory and Economy balance, and hence we say that "language is the storehouse of thought."

As another example, take the faculties of Faith, Love, and Hope. At the front, the organ of Faith gives us strong confidence in human goodness and the possibility of improvement. The moment this faith is established, the organ of Hope responds and leads us to undertake great and beneficient enterprises for humanity, and thus satisfy Love or Philanthropy. The mental trinity of Intellect, Affection, and Expression occupies the front, the middle, and the back brain. Affection lies along the minor axis, and is, both mathematically and vitally, the central third of our mental life.

Thus when we desire anything, through Affection or feering, the Intellect in front remembers, reasons, and decides about it, and then Expression in the back head moves the muscles to do what is necessary to gratify the desire.

The primary impulse to action comes from the central member or pivot of the mental trinities, and first the left wing responds and then the right.

The sense of hunger springs from Appetite, but it requires both Intellect and Expression to gratify its wants. We must see the food through the perceptives and the impulsive organs of the Will must move the muscles of the legs to go and getit.

Wisdom and Will are always the instruments to serve Love, from the low realm of sensation up to the exalted sphere of religion. Love without


gaged in study or thought the head naturally inclines forward. It is seldom held high, and never is thrown back under intellectual excitement.

The Perceptive organs cause downward and forward motions of the head, as when we are picking up or closely examining objects. The larger number of the objects upon which the perceptives act lie beneath us or upon the surface of the earth.

The group of Memory is horizontal in its direction. Observation points the forefinger almost directly forward, and slightly upward when acting under the influence of reason, as when pursuing a close and direct train of thought. Observation relates to what is directly before us. Memory, Time and system are more external, and relate to events as they recede into the past and form fixed periods and systems of action.

Reason produces forward and upward gestures, as we see in a speaker who is reasoning and explaining logically. Prevision usually acts with Inspiration. and thus produces motions more lateral, and broader in their sweep. Reason produces similar ones when acting with Imagination. In . planing and using a chisel, the movements are in the line of Construction. modified by Destruction and Aggression, as a vart of the force comes from the latter organs.

Kindness throws the head forward and up, and raises the hands in the same direction when we are rendering assistance. The language of Friendship has already been mentioned.

Gestures of Affection.-Faith raises the: hands above the head, slightly forward, and near each; other, with the palms inward. This is the right at- :

## B.

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itude for expressing the triue feelings of this lofty faculty. The act of bowing the knee comes from the organ of Serving, low down on the side head. It seemed appropriate enough in those ages when men regarded the Deity as a despotic monarch, only a little above themselves. The highest and purest religious fervor requires lofty, outspread gestures. And every artist gives these to the apostle and religious teacher, because they naturally express the superior sentiments. Hope, Belief, Zeal and Victory, all elevate the limbs and the features.

The organs of Sexation cause the upward and forward motions of caressing, the clasp, and the embrace. As we shall see hereafter, these organs are on the minor axis of the brain, and hence may use the gestures of all the other faculties to express themselves.

The natural motions of Parental love are seen in the act of nursing an infant, supporting and carrying it in the arms. Modesty and Reverence usually draw the hands close to the side of the body. When acting under the influence of the higher social faculties they may raise and clasp the hands. Reverence may greatly expand the feelings when we are gazing upon sublime scenery in nature, or when contemplating the grand achievements recorded in history.

Appetite, Feeling, and the other senses point to the earth. to their objects of relation and attraction on its surface.

The motions of Affection, as a whole, are of a gentle, refined, soothing, and quiet character, and they produce attractive and winning manners in social intercourse.

Gestures of Volition.-The vigorous organs give the upright walk, the firm, erect, and manly carriage of the head and person. Integrity raises the hand directly upward by and above the side of the head. Justice may also be expressed by extending both hands horizontally forward with the palms upward. The hands then take the line of the intellect and represent the idea of balancing, one of the functions of Justice. Caution and Economy, pointing out from the right side of the head, may bring the left hand in toward the body. They may also throw the hands outward, as when we reach out the hands to protect ourselves from danger at the side of us. Here we see that the same organ produces motions both from and toward the person. Both motions are in the same line of direction that of the mental fibres.

Dignity gives the erect attitude with the head and shoulders thrown slightly back, imparting an air of self-possession more marked and imposing than the simple attitude of Firmness. Laudation throws the head more to one side.

Defence moves the limbs back and to the sides, as seen in animals when kicking. The motion of striking with the fists is in the same line, but reversed by the signs of Defence in the back of the hand and arm. Economy draws the hands inward, as in the act of gathering materials.

Destruction, Baseness, and other impulsive organs cause motions still more downward than Defence, as we see in the acts of rending, tearing down, destroying, and stamping. When a carnivorous animal strikes its prey with the paws, the motions are in a line between Construction and

Destruction ; it destroys the prey that it may construct its own body out of the materials. In walking, the motions of the feet against the earth are in the line of these organs.

Language and Gestures. From the foregoing descriptions the student will perceive that the language of gestures is in no way arbitrary, but strietly natural. Our spoken language is full of illustrations proving an instinctive perception of this mimetic law. We speak of actions which spring from the superior organs as being high, lofty, noble, exalted, and heavenly. While of those which result from the base of the brain we speak as being lono, debased, ignoble, and earthly. We speak of the summit of power and of moral excellence; and of the depth of infamy and vice. We commonly think of these as mere figures of speech, but the mimetic law proves that the expressions are mathematically true. In a large number of cases, there is a direct, external. physical reason for the figures of speech. A parent is literally taller than the child, and therefore superior. But the mechanism of the brain must be exactly adapted to all these physical conditions, exactly fitted to produce the necessary actions in each case. Otherwise, the mind and body would work in a confusing and impractical antagonism.
Character in the Walk. With a knowledge of the various gestures we can easily read the general character of a person by the walk. For, in walking, the head, the arms, the body, and the legs are all making gestures. If a person in his walk habitually assumes and makes the gestures belonging to any group of faculties, we may be certain that those faculties are leading ones in his character

## THE VOICE AND CHARACTER.

In the walk of a tall, healthy, well-balanced man, both Dignity and Firmness may be seen. Where these qualities are deficient in the character, the stooping posture and unsteady gait will be assumed. The mincing, affected walk of the dandy, and the heavy, ungainly tramp of the boor, each express corresponding mental characteristics.

Effect on Locomotion. The attractive organs are in the front, and the repulsive ones are in the back of the body. As a consequence of this arrangement, we are attracted to what is before us, and we move forward. At the same time the organs of the back head repel us from what is behind us, pushing us forward, and thus acting in concert with those in front. Attractions and repulsions are proportional to destinies, for they are the motor forces which carry us onward and up--ward. This is as true in the physical as it is in the mental sense.

The upward attractions center in Religion, and the forward ones center in Retention or the group of Letters.

According to the law for the composition of forces, their united action is on the diagonal line between them, and this takes the organs of Culture, the line of progress and reform. It is upward and forward.
The organs of the side head are alike on each side, and consequently we are equally attracted or repelled from each, so that these do not determine our course.

The Voice and Character. The vocal gestures or Inflections follow the mimetic law. Thus the organ of Reason, which asks questions, points somewhat upward. Hence, all questions have the


CHAPTER SIXTH.

PHASES OF LIFE.

The mental faculties are subject to a law of evolution which embraces in its sweep the entire career of vertebrate life on our globe.

The human brain proceeds from the development and rule of the organs at the base and back to those of the top and front. This gives three great phases of life, Preturity. Maturity, and Senility.

From the first moment to the close of fœetal life, the brain presents a constant increase in its complexity of structure. At different parts of this period, the embyro resembles, in succession, the members of an ascending series of the lower animals; but the brains of these lower animals are arrested, some at a low and some at a higher point, that of man alone passes onward to completion.


All impressions made upon the mind and body of the mother during the prenatal phase are transmitted, in a greater or less degree, to those of the child. If the parents exercise their higher faculties during this period, the child will be superior in mental endowments. If they exercise the lower faculties chiefly, it will be inferior. The law of Heredity places within our voluntary control a powerful instrument for human exaltation. It is for the vital interests of society that all parents should have the favorable conditions which these laws demand. Both the parents and society are responsible for the organization of every child. They can make it good or bad as they choose.

The child, after it reaches maturity, is to be a member of society forty or fifty years, four times as long as it is directly dependent upon its parents; therefore society has a much greater right than the parents, to control the child's development and education.

Phases of Personal Life.-The brain is not perfect at birth. It must pass through phases of development each well marked at its central period, and at their points of union insensibly gliding into each other. We may consider life, after birth, in three phases. The ascending phase of Preturity, includes childhood and youth. The central phase of Maturity is the highest altitude of life. It is succeeded by the descending phase of old age or Senility. Each phase is marked by the dominant activity of certain faculties.

Childhood.-During the periods of Infancy and Childhood, from the first to the tenth year, the groups of Impulsion, Sensation and Perception rule the character. The child is restless, impul-


## CHAPTER SEVENTH.

KYOLUTION OF SOCIETY.


The voice of inspiration and the teaehings of science unite in proclaiming the exalted social destiny of man.

The advancement of the human race in past ages has not been guided solely by the caprices of statesmen and kings, nor by the fluctuating impulses of men. The mighty drama of human history has been an impressive and majestic procession, moving forward under the dominion of eternal laws.

These laws of development are not only an inherent part of the nature of man, but they also control the physical world, and have their center in the Iife of the Universe.

In the fossil-written record of this earth's history we masy examine its many steps of preparation for the noble advent of man.


## VERTEBRATES.

march of organic life toward more perfect forms.
The first vertebrates were Fishes, the lowest animals of this division. Then came Reptiles, a little higher in structure ; then Mammals, above these ; and at last came Man, the crowning form of the organic series.
It is the marvellous brain of man that gives him the most exalted rank in the scale of earthly life. The development of the nervous system and the brain is therefore the most interesting of all the facts revealed by geologic science.

If we compare the nervous system of the lowest vertebrate, a fish, with that of man, who is the highest, we shall be at once struck by the great relative development of the brain in man. As shown in the initial engraving of this chapter, the brain of the fish is only about one third greater in diameter than his spinal cord. The balance of nerve power in the fish is only slightly in favor of the head. But the brain of man exceeds in diameter that of his spinal cord seven times. Its structure, too, is correspondingly complex and elaborate. In man alone the front limbs are entirely relieved from the duty of locomotion, and are so specialized in form as to be perfect servants of the head. He alone has a real hand.

Through all the many species of vertebrates, from the fish up to man, the spinal cord and lower parts of the nervous system have steadily diminished in size and importance, while the brain has quite as steadily increased in relative size and in perfection of structure.

This all-sweeping law must aiso embrace the brain itself when we compare its lower with its higher parts. It must determine the successive

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development of its organs from the base to the top, as was illustrated in the phases of personal life. The ultimate rule of the higher faculties of the brain, the nobler powers of the human mind, is secured by a law as extensive in its way as the existence of organic life itself. No hand of conservatism can turn back that upward march of humanity.

Whatever may be the functions of the top brain, this well proved law of science assures us that these functions must rule in the future of national life, in the political conduct of men, no less than in that of the individual members of society.

This law sums up the experience of the whole human race, and that of all life below man. If selfishness has thus far ruled in the affairs of nations, this law shows that it can not in the future.

National Phases. Nations are composed of persons, and hence the laws which govern the individual also determine the national life.

A nation, like a person, has its childhood, its youth, and its maturity.

Through these national and race phases we observe the same successive rule of organs from the base to the top, and from the back to the front, which mark the life career of a single person.

The first ages of the human race were sensual, debased, and ignorant. As a nation, or the race advances to maturity, the higher and nobler faculties come into activity and elevate the whole character of civil and domestic life.

But so far in history, no nation has completely developed its phase of maturity. Many nations have just entered this phase and then have been cut off prematurely, or have remained with a dwarfed growth for centuries.

This part of the law of evolution is regarded by all scientific men as established by the clearest of proof. We may safely build upon it, as an everlasting foundation. We shall first see what changes this law has produced in the past, and then show what it points out in regard to the future of national life.

On three great lines of movement we may trace the influence of higher and higher faculties, as nations pass through the phases of childhood, youth, and maturity. The lines of Intellect, of Affection, and of Industry are separated in the engraving by dark upright lines. Each one is subject to the same great law of development.

In the childhood of the race, the low faculties of Mobility, Destruction, and Aversion, lead to absolute forms of government. The most successful warrior and hunter becomes the chief of the tribe by his prowess. Labor is insulated, it is confined to hunting, fishing, and pastoral life, except in a few localities where a rude earth culture is very easy.

In the phase of national youth, the higher organs of the Defensive group lead to forms of government in which the power of its rulers is limited by fixed laws and customs. The war power and the money power are then regarded as the true indications of a nation's rank in greatness. Labor then assumes the form of competitism, a fierce strife of the few to accumulate wealth from the labor of the many. This phase produces war, monopolies, competition, usury and poverty.

When a nation, or the race, reaches maturity, the group of Rulership comes into full power in government, and it is under the guidance of the



MESSIANISM.
CIVIIISM.
WISDOMATE.
Culture.
Receiver-Amity.
Cultess-Reform.
Science,
Scientist-Reason.
Symbolist-Inspiration.
Letters.
Legislative.
Recorder-Memory.
Curator-Observation
Art,
Designer-Form
Costumist-Color.
Schools-Teachers.
SOCIALATE
Religion.
Pastor-Faith.
Minister-Love.
Marriage.
Ritualist-Desire. Matron-Mating.
Family.
Teacher.
Nurse.
Churches.
Clergy-Priests-Bishops,
Home.
Purveyor-Appetite. Sanatist-Feeling.

Agricultural Soc.-Hospitals.
LABORATE.
Rulership.
Ruler--Dignity.
Elector-Laudation,
Labor.
Justice-Integrity.
Censor-Caution.
Wealth.
Guard--Defense
Judicial \& Executive Treasurer-Economy.

Judges-Courts.
President, Governors.
Commerce.
Eigineer-Mobility.
Cabinet-Ministers. Herder-Aversion. Marshals-Police.



We must have a new method. In the railway, the steamboat, the telegraph, and numberless improvements of modern life, we see that the superior methods of modern science have supplanted those of mere experience. Not one of these great inventions was produced by imitating the past. Science puts exact knowledge in place of mere guesses and imitation.
The time has now come to extend the sure and safe methods of science into the domain of politics. And science will quickly tell us why the old methods have been and must be failures. It will explain why, "after nearly two thousand years of Christian rule, we find the mass of the population struggling for a bare existence, like ravenous brutes for food. In the most favored of countries, men fight for individual advantage, everyone for himself, as if the golden rule had never been laid down, and men were governed by the cruel law that life is a fight in which the strongest conquer and the weakest go to the wall."

In regard to the true constitution of society, the argument of science is a direct statement of facts which cannot be denied or set aside. They are all self-evident, when once stated, and they also contain the most positive proof that the new methods will be entirely successful, as soon as they are applied.

The argument may be summed up in three self-evident propositions.

First. The collective wants of society arise from each of the mental faculties, and we can know the number of these wants only by knowing the number of the faculties.

In the engraved archetype of society, after


## SEVEN CIVILIZATIONS

Impelled by those wants, men have organized all their institutions, and elected all their officers. If men had possessed no organ of Economy, there - would have been no Treasurers in any society. If the organ of Memory did not exist, man would not know that a society required a Secretary. As the organs of the brain correspond to those of the body, this analysis includes all of the bodily wants.

Third. A complete form of society must have as many departments and officers as there are groups and faculties of the brain. If there is a less number, then either some wants would be left unsupplied, or some officers must fill diverse and complex functions.

Taking both the past and the presentinstitutions of the most highly civilized nations, a critical examination shows that only one half, that is, the six lower groups, are in any manner represented. These groups are all below the major axis in the brain. It is true that in the departments above this line are some terms already used in civilism. But they represented analogous functions far lower down in the brain. Thus the courts of Justice only represented the low organs of Destruction, Economy, and Reserve. Hence they destroyed the life, confiscated the property, or imprisoned the evil doer. But in the new plan, the Justice represents Integrity, and seeks to restore the criminal to a state of moral health and social integrity. the true functicn of this faculty.

The reason why the higher faculties have not been provided for, lies in the fact that they belong to the phase of maturity, and the nations have only passed through the phases of childhood and youth.


They have been dominated by the base of the brain. Fraud and Force are the two black parents from which most of the institutions of civilism have been born.

But the nations have now entered the phase of maturity. They are everywhere dissatisfied with the old, and are waiting for the new. The analysis of man's constitution in this Book of Israel proves mathematically the exact number of his faculties, and from this we know the exact number of his societary wants. Before this analysis was made, the statesman did not know that the wants of society spring from the faculties, and without this key of social science, they could never know how many departments and officers should be in the plan of society. Nor could they know how these should be arranged.

The new and final structure of society is fully shown in the Model of Society, in the eighth chapter. It reproduces all parts of the constitution of man, and consequently it represents all of his possible wants. Its plan is so complete that no committees are ever required, in any of the orders The duties of each officer are clearly defined and are different from those of all others. It is not like the House of Commons, or of Representatives, where hundreds of members have exactly the same duties, making the whole an unwieldy tmob, instead of an organism.

Although civilism represents the lower half of the faculties, it does not do this in a complete and methodical way. For example, in Great Britain and America the three departments of government are Legislative, Executive, and Judicial. But the great classes of wants in society are Intelluctal,

## specialization.

Social, and Industrial, for they arise from the great divisicns of his nature, from Intellect, Affection, and Volition.
The table of Man and Society presents a fair and just comparison of the new with the old structure of society. In the first column are placed the titles of the Leaders in Israel, and after each of these is the faculty which that officer represents. On the right side of the page are the corresponding parts of civilized institutions. While civilism represents some of the single faculties by fifty differently named officers, it leaves fully one-half without any representation at all, as we see in the blanks of the table.
When thus compared with the constitution of man, the structure of civilized society is fatally defective in the number and character of its parts. It cannot give man the highest conditions of life, it can not, and never did satisfy the aspirations of man.
Not only were the parts of civilized society so sadly deficient, but the natural relations and mutual dependence of its various parts were disregarded, or not established, as we shall now consider under the head of Specialization.
Specialization. Far below man, and extending too, far up through all phases of his national life, is the great law known to scientific men as that of Specialization. It teaches us that in the career of every thing, whether it be the formation of a world, of an animal, or of a nation, the method by which its growth is effected consists in the division of labor or of action. That is, those functions and actions which in the early stages of evolution are performed in a rude and general way by a few

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organs or parts, or else by many parts of similar form, are gradually divided up among a greater and greater number of unlike parts, each assuming some special portion of the work.

While in the early stages of evolution there is scarcely any mutual dependence of parts, this becomes greater and greater with the increasing complexity, so that at last the full life and activity of each part is more possible only by that of the rest.

A few examples will show clearly the application of this important law to national life. Thus in some of the lower forms of animals, like the crinoid figured at the head of this chapter, the entire function of digestion is performed by a simple sac or stomach. As we pass upward in the scale of life, we find that in other animals there has been added to this sac various other organs, each doing a special part of the work of digestion. Thus we have a liver added to separate the bile; pancreas to help digest the fat in the food; intestinal and salivary glands to digest its starchy portions, and teeth to masticate. Of course where all of these exist the whole process of digestion is carried on much more perfectly.

Now this law of Specialization, this division of labor, governs the social progress of man no less than it does that of his body. For example, in national infancy each person performs every kind of labor pursued by any of the rest. Each man, in a rude way, is at once hunter, farmer, mechanic, and merchant. The savage chief hunts his own game, dresses and cooks it, gathers his own nuts and wild fruit, and makes his own rude clothing of skins, and his ruder hut of sticks and mud. In
later periods, persons who show particular aptitudes for special kinds of labor begin to devote themselves to the kinds in which they excel, and thus the various trades and professions come into existence.
One man makes arrowheads, another blankets, another huts, and so on. Out of, and along with, this division of labor there grows a far greater degree of mutual dependence between the members of society, and this increases just in proportion to the advance in civilization and social unfolding. For the men of each trade must exchange their products with those of the other trades. But while it makes men more dependent, it also makes them more completely individualized. The most highly individualized man is the one who has depended upon the greatest number of his fellow-beings for the materials, the comforts, and the luxuries of life. The farmer is dependent upon the tradesman, the grocer, the carpenter, the shoemaker, and those of a hundred other trades. And conversely, each of these is dependent upon the farmer, and upon all the others. The greater the degree of individuality, the greater is the degree of mutual dependence, and of social unity of action and of feeling.

But while labor remains in the stage of competion, there is no formal recognition of these mutual dependencies. There is no provision to secure organized unity of action. Instead of this we only find a selfish antagonism of interests. Everyman's hand is against that of his neighbor. What is for the interest of one nuan in civilism, is against the interest of the rest. Such is the state of industry in all civilized nations in this year of

him to perform an exceedingly great variety of movements.
And so, in the true social organism we shall find a less number of officers than in the Christian and other civilizations. The whole structure of society, the duties of its officers, and the relations of its departments, are so clearly defined that a child can understand them. And the youth who learns this in the band where he lives will then have a clear and true idea of the mechanism and the workings of society through all its orders. The expense of conducting the affairs of society are reduced to a very small part of what was necessary in civilism. Ninetenths of all the labor in civilism was misdirected, wasted, or nugatory.

Final Test.-The final and supreme test of any form of government and society is to compare it with the constitution of man. This we have now done, and have shown that the very best of civilized institutions have failed and must fail to secure human happiness. No matter how high the personal character and attainments of its officers may be, the mechanism of civilized society does not admit of the higher functions. It is as if we should put the spirit or mind of man into the body of a horse and compel it to use that body as its instrument of work and manifestation. We can see at once that in that case the mind of man could not do any of the great deeds, produce any of the high works of art, or give form to the thoughts which place man so far above the brutes. So in civilized society, when men wish to unite in any noble and necessary work for their common .welfare, there is no organized means suitable for their use. If they form an organization for the



to their characters, tastes, and attractions, each groupate being composed of those who have the corresponding group of mental faculties dominant. Twelve groupates form a complete society or Band of Israel, which thus contains from one hundred and forty-four to four or five hundred members. The School is formed on the same plan as the parent society, and the Home School is presided over by the Home groupate.

Twelve Bands of the lowest rank are united in a Town. Thirty-six towns are united to form a County. This has the same number and kind of officers in its general government. The State contains one hundred and forty-four counties. Thirtysix or more States form a Nation.

The wants of a Town, of a State, or of a Nation are alike in kind, and they differ from each other only in the degree in which these wants descend to details. For example, a town may require roads which reach no farther than simply through it. Other roads may extend through the State, and others still, through the Nation. But in either case, it is the same kind of a need, and differs only in extent.

If the wants of all these orders are the same in number and kind, they must each have the same kind of officers, and be governed by the same constitution. From the lowest to the highest rank, the Model of Society gives the plan of government in each Order. The only titles changed are those of the two central officers. These changes are shown in engraving at the head of this chapter.

When all the nations of the world are united, the central nation is Israel, with its capital in Palestine Its officers are elected every twelve years.

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BANDS OF ISRAEL.
THE MESSIANIC KINGDOM containa twelve departments, In each society or Band of Israel, namely-Art, Letters, teience, Culture, Heligion, Marriage, Familism, Home, Bulership, Les bor, Wealth, and Commerce. The plan, relationa, and officers of these are shown in the engraved Archetype of soclety. The Kingdom establishes and secures twelve thinge:-

1st, AUTHOEITY, All the true laws of structureand action in Society, whether physical, spiritual, or political, are inherent In the nature of man, and must be proved by the methode of science before adoption. The office of legislation and milerthip is to disoover, adopt, and execute the natural laws of soclety, but not to invent or manufacture laws, except merely as temporary expediente.

2nd. Elferioss. All officers must be chosen, or deposed, by a free majority vote of the adult members which they are to lead.

3rd. Edccatios. This must secure normal methorls of teaching; the systematic, daily culture of all the mental faculties; and physical training.
sth. OwsERAHIP. There must be common ownership for all things used in common by twry or more Dersons, such as Buildings, Lands, Highways and Machinery.

Sth. Euploysext. All members must have constant employment, and the full resulte of their labor. Members must begrouped according to their characters, tastes and attrace tions.

Gth. SExabity. There must be dual equality of man and woman in all the offices, employments, and labors of society.

7th. Heredity. Soclety must control and establiah the conditions of heredity, and a providence over children.

8th. The Hows. There must be unitary dwellings, systematicearth culture, andsanitary conditions for all societies.

Th. Commence. There must be organized distribution of labor and art products, and established liness of transit, messar ges , and commerce.

10th. Cosvestioss. Ammal conventions of each nation. and semi-annual ones of each State, to secure unity of action.

11th. Repersentatios. The wants of the lower orders of Elocietics are represented in the corresponding parts of the migher orders.
123. Recigios. There mugt be a unity of all human interests in society. The good of earh must be secured through the goorl of all. The unity of the Human with the Divine life ruast be established through an obedience to the intellectual, moral, and physical laws of the human constitution, for this is an image of the divine constitution.


## a



In serving as a pivot of international action and unity, this central government must have the consent of each nation involved in any project or proposed line of action, before it is put into practical execution. It can not force its measures on them without their consent. The legal title of the two highest central officers in Israel, is Prince and Princess, the word Prince meaning one who is first.

Authority. The laws of the human constitution include the only true laws of society. Therefore the office of legislation is to discover and express these natural laws. Or, when this cannot be at once done, it may devise temporary rules and expedients until the required natural law can be discovered.

The proof that each law of society does thus truly express a natural law, shouid be such as to satisfy all members who are to be affected by the law, so that no person shall be compelled to obey a law which he does not regard as true and based on justice.

Every permanent law of society must be referred back to the people for their acceptance or rejection, and it must be accepted by a three-fourths vote before it is practically adopted. Temporary expedients, in the case of emergencies, need not be subject to this rule.

The methods and tests of science legitimately apply to every sphere of knowledge. And scientific proof is of such a character that it can be understood in the same way by all persons. Therefore no doctrine or belief which is not susceptible of scientific demonstration must ever be made a part of the laws or constitution of society.

True freedom consists, first, in the presence of
the right conditions for the full and natural exercise of every faculty ; second, in a normal internal state of the faculties; and third. in the absence of false external restraint.

It is not in any sense true that when men enter civil society they surrender certain rights or liberties, in exchange for other benefits conferred. On the contrary, it is only by uniting in organized society. that man can gain the conditions required for the free exercise of each and all of his faculties. If isolated from his fellows, he would lose the freedom to use all his social organs, and none of his other faculties could attain a full development.

Man is adapted by his nature to live in a social organism like the Kingdom where all parts of his nature are represented. By fulfilling the duties of such a life, by acting in concert with others, by loving and being loved, by these alone can any person secure the full measure of freedom. The laws of such a society can not restrict any person's freedom, because they are true statements of those laws which are a part of the nature of each person. The acting forces are from within and not from without.

Every person has a natural right to the proper development, conditions, and use of each faculty. Rights cannot be created or transferred by men.

As all human beings, of either sex and of all races, have the same number and kind of faculties, therefore all have the same classes of rights, and are adapted to the same great forms of government and social life.

The quantity of a right may depend upon the degree to which its faculty is developed. A man with a small organ of Reason would have a right
social action. As all adult persons, of either sex and of all races, possess this choice or preference, therefore all have a natural right to vote, and may exercise this right after the sixteenth year of age.

All officers must be elected by a direct vote of the members which they are to lead and rule. Thus, the members of a Town Band elect its officers, those of all the Town Bands in a County elect the officers of that County, and so through all the orders up to the Nation. But in case of vacancies the Centers may appoint temporary officers until elections can be held.

The assistant. officers are each elected by the groupate in which he is to act. The same rule applies to sub-leaders of the subdivisions of departments.

The Curator and Recorder take and record the votes in each society

Each officer must have the represented faculty large. Thus, the Scientist should have large Reason, and the Justice large Integrity. The Centers should have a full development of all the faculties.

Regular elections are held on the fifteenth day of March, officers entering upon their duties the twenty-first day. In the Nation, elections are held once in seven years; in the State, once in six years; in the County, once in five years; and in the Town, every year. In elections to permanentiy fill vacancies, notice thereof must be given at least twelve days previous to the election.

The times of election may be changed by a twothirds vote of the members in all the societies.

In case of official misconduct, any officer may be tried before the Justice and Censor of an adjacent society, and the evidence elicited be published
that any one will receive more than his just share. This law applies to all the produced necessities and comforts of life.

Those things which are used by one person alone, should be owned by that person. This includes clothing, private rooms, and many kinds of tools. In all these, each person has individual character, peculiarities, and tastes to gratify, and what is adapted to one person, is not adapted to another.

All those things which are used together by two or more persons, should be owned by them in common. One person alone could not occupy and use a house, and therefore should not own it. Each Band of Israel would own a unitary home, with common rooms used by all, and with private rooms which are used and owned by each member exclusively, and furnished in harmony with that member's character and tastes.

A railway is to be used by the whole public, and they should be its owners. A farm can only be well cultivated by a group or a society, and should be owned by them. Homes, temples, workshops, storerooms, machinery, lands, and highways of all kinds, are all used by a common public, and should therefore be owned in common.

The Town, the County, the State and Nation, each owns property. For example, the County owns the county roads; the State owns those which only pass through it, and the Nation owns those roads which are national in their extent.

The two Centers, with the Guard, Treasurer, Secretary, Curator, and Marshal, constitute a Board of Trustees in each of the five orders and they have the general care of the property in each society.

the imperfect schools of civilism, secured to every member of society the benefits of a general education. The manifold benefits of wealth will in like manner be secured to all members of society through the national organization of Industry. If it is wise and practical to establish order in the work of imparting knowledge, then it is equally wise, practical and necessary to organize the application of knowledge in the methods of labor, in a complete system of production and distribution. This will displace competitive labor by combined industry, and establish equity in supreme dominion.

The system of combined industry in the Kingdom, opens a thousand new channels for the highest ambition, in the fields of science, labor, culture and religion. And, unlike the grovelling lust for wealth, these higher channels lead only to the welfare of humanity.

In every Band, through all the five Orders, there is a department of enterprises, of displays, and of awards, so that every person is sure to receive, not only assistance in his undertakings, but the fullest measure of reward and praise for whatever good and great thing he may achieve.

Every person has a natural right to associate with others who are attractive and congenial.

This right must be gratified by arranging the members of each suciety into twelve groupates, according to their characters.

Members in whose characters the reflective faculties are dominant would unite to form the groupate of Science; those who have the faculties of religion as leading elements of their characters would form the groupate of Religion ; and those

than in others, but neither can claim superiority as a whole. They possess equal quantities of power; but it differs in kind.

The physical differences of sex must produce mental differences, because the brain and body are definitely related in action and sympathy. So long as woman must fill the offices of maternity, so long must her nutritive organs predominate over the nervous and muscular. The effect on her brain would be that she would be ruled more by her affections and emotions, and less by ideas and material influences.

In the table of faculties, the first one given in each trinity dominates in the character of man, and the second one in the character of woman. Man is positive, woman is receptive. In general, man is the more vigorous, muscular, hardy, bold, cool, and scientific. Woman is the more sensitive, yielding, gentle, loving, ardent, and intuitive.

In woman, the nerve-currents from the body to the brain first flow outward on the mental organs which are feminine. In man they first flow outward on the mental organs which are masculine. Thus in examining a truth, man looks at it first through his Reason; while woman gets her first idea of it through her Intuition.

These natural differences of the two sexes adapt them to different spheres of intellectual, social, and industrial activity. Their spheres, like their characters, are complements.

The offices and labors of society are all dual, as shown in the Model of Society. Each has its masculine and its feminine side. Thus the department and labors of Illustration are feminine complements to those of Building. So is that of



Imagination, Faith, Love, and Hope. The action of all these faculties is constantly required to develop, perfect, and sustain sex-love. These organs have the same location and sustain the same relations after marriage that they did before.

If we would make love perpetual, we must exercise it in connection with the full activity of these higher organs, and not allow it to be led by those at the base of the brain, by mere sensation and impulse.

In the most complete expression of love, -the physical union of the sexes,- the highest faculties of the mind must be called into dominant activity. If they are not, it will surely debase both parties, and the physical pleasure itself will lose the best of its sweetness and intensity. If impulse takes the place of self-control, if modesty and reverence cease between sex-mates, if they cease to refine and inspire each other, then their love will certainly be made impure and its beauty will be destroyed; its golden fruit will turn to dust and ashes.
Purity is in the right and normal use of any organ, not in its disuse, or suppression. It is a positive and active, not a negative quality. Purity of the stomach does not consist in its not digesting food. The lungs would not be pure if they did not work actively in clanging the blood. We must not define sexual purity as the absence of all sex-relations. Nor must we imagine that an external ceremony is sufficient to secure purity here. That is not a pure sex-relation which brings forth children who are badly organized in mind and body. In our eating and drinking, purity is not less central, and its violations are not less corrupt-


## CONDITIONS OF HEREDITY.

course. In the new life it becomes the high and inspiring center of a thousand new relations of harmony.

Conditions of Heredity.-Society must give to all prospective parents the best conditions of heredity, so that the forming structure of the child shall be perfect, mentally and physically. Private effort can never secure and maintain these conditions. In every child, society has rights no less than the parents. But the two claims can never be in conflict. The child is to be under the direct influence of its parents for perhaps twenty years, but it is to be an active member of society more than three times as long. Whatever tends to develop the individual character into symmetry, that also tends, most directly, to qualify the person to fill his place in society with honor.

The laws of Biology teach us what are the conditions and influences which mould the character of children previous to birth.

It is comparatively an easy task to train children into virtuous men and women, if their original organization of brain and body has been made such as these good prenatal conditions will secure. Society has a right to protect itself by insisting that prospective parents shall avail themselves of these conditions.

Home Work.-The division of human labor into classes or separate trades and pursuits has lifted man from barbarism to civilization. But this division of labor affected the pursuits of the male sex chiefly. From the most primitive times woman remained merely a housekeeper, and her advance depended upon the incidental influence of her connection with man.



The wealth of society is the product of its united industries. No person, by wholly isolated industry, could accumulate wealth. The right to superintend its distribution is therefore much more a society than it is a personal right.

The organ of Economy, the desire for property, has not as much right to dominate the life of society as any one of the higher faculties possesses In civilism, the love of wealth was a dominant power.

If a member were so selfish as to require more luxuries and comforts than his proportion of the labor would have produced, then that is simply a proof that the society has not educated him up to the proper idea of social justice.

In effecting the commercial exchanges between the various societies, the same law is followed. Each is supplied in proportion to its wants.

Conventions.-Each State society may hold a semi-annual ccnvention, lasting seven days or more. As delegates and voting members of this convention, each town may send its Pastor and Minister. The temporary absence of these officers is supplied by their assistants.

Each Nation holds an annual convention, to which each of its States sends its Pastor and Minister as acting members.

In a state convention, the regular officers of that state preside; and in a national convention, the officers of that nation preside.

Each convention receives reports from its component societies, and devises plans for their concerted action, their social welfare, and their material prosperity.

Representation.-The wants of the lower orders


ture, religion, sexation, and parention have a most important law of social action. In the true and natural action of these organs, their nerve force flows out from one person to another as its object, and is then answered by a returning current from the latter person. Thus, when I exercise my Friendship, the current flows from this organ to my friend, and from his organ of Friendship a returning current flows to me. On the other hand, only four organs, and these are all low ones, have self as the first object upon which their actions terminate. Our high and true life must flow through that of others. We can maintain it only by perpetual interchange. We must look out and not in. The members of a harmonic society must be as vitally related to each other as are the parts of our physical organism.

If we are selfish and seek to draw everything to ourselves, we must of necessity contract our minds and our pleasures. Selfishness defeats itself. Expansion of the mind means outward growth, and this law explains its method. To give is the way to live. Through the social law which we are discussing, all humanity is made one, and we receive the full benefit of its common growth and advancement.

We are by nature social beings, and a universal sympathy may through this law unite all nations and communities in one vast, composite life. To effect this sublime result and give full sway to this beneficent law, the institutions and government of society must be formed in harmony with the nature of man, as planned in the Model of Society.

Humanity must be regarded as a unit, made up of the past, the present, and the future. We all


guide for the successive steps in making this change, the law gives all the required forms of transition.

In the personal and the national growth of man, the more simple forms come first, and then those which are more and more complex. Following this great law of growth, it is not necessary to have the full complement of twelve groupates and twenty-six officers in order to commence a Band of Israel. Any persons who chose may unite and form a Band with only the seven following officers: Recorder,

Rabbin,
Guard, Curator,

Rabbiness.
Treasurer,
Marshal.
These officers represent the major axis of the brain, the line of forward movement. The brain itself begins its growth, with three vesicles on this line. These officers lead in the intellectual, the social, and the industrial work of the Town, as shown by their position in the table.

The following form of agreement is used in forming Bands, the names and dates being changed to suit each case:

Band of Israel. We accept the plan, the life, and the laws of the Messianic Kingdom, and we organize the first Band of Israel, of London, this fifth day of September, in the year of the Exodus of Israel 3468.

This form is signed by the members and bound in at the end of the copy of the Sepherva kept in the hands of the Secretary.

Many bands of Israel will be formed for the preparatory work of intellectual culture, of learning the methods of the new life, and of spreading a knowledge of the new truths among the people.

## BAND OF ISRAEL.

They also will form the means of concerted action in securing a practical adoption of the new methods required in social or political life.

These Bands may hold conventions and act in unity with the fully formed Bands. They may organize their children into classes and groupets so as to form a school for daily or weekly training.
Whenever three-fourths of the members desirc it, a band may enter upon its phase of practical life. As fast as expedient, it will then arrange its property and its employments on the unitary plan, as stated in this constitution.

Its buildings may be formed on the fundamental plan of the temple, but have a less number of rooms and amount of detail, and thus lessen the cost of building. These Bands at first have only the three departments, but when the number of members is sufficient, they may be divided up into the twelve groupates. and each of these have its leaders and assistants. Each Town will regulate these steps of growth according to its increasing amount of wealth, of vital culture, and of numbers.

The government of each State and Nation may be organized after the general plan given in the Model, long before the majority of the people are prepared to live in the high and unselfish condition of unitary homes.
The national or the state government, with that of each County, Town, are in twelve subdivisions or groupates, with two officers and an assistant over eack one. The Towns night, however, retain the simpler form of only sever ffficers.
Within the State there might still remain more or less of the old sectional organizations, such as




corn. Dan is in the group of Labor, in which Justice is the leading masculine faculty. Dan means a judge, and it is said that Dan shall judge his people. Labor shall judge the world ; it is a serpent by the path, it secretly strikes at the rulers, and they will fall backward out of power. Then shall follow the salvation of Yehovah, says the patriarch. Benjamin is placed where the group of Wealth is, in which are the defensive and acquiring faculties, and of Benjamin it is said that he shall raven as a wolf ; in the morning he shall devour the prey and at night he shall divide the spoil. They were the most warlike of all the tribes.

The west side of the city contains Gad, Asher, and Naphtali. Gad is in the group of Letters or philosophy, of central truths, and he is said to be seated in a portion with the lawgivers. His group is the middle one of Intellect, the faculties which deal with laws. Asher is in the group of Science, and the Asherites, mixing with the Phenicians, became the most scientific of all the tribes. From them came the builders of Solomon's Temple. Asher shall have shoes of iron and brass, he shall dip his foot in oil, and as his days are, so shall his strength be. This prophecy has a most striking fulfilment in the modern triumphs of science. Its iron railways and brass-fitted machines of locomotion, are the shoes used in its swift lines of travel, and these must be constantly dipped in oil. Through these he brings royal dainties from foreign lands and makes them common in every household. Naphtali is in the group of Culture, and his goodly words and bland manners come from the faculties of this group. He is swift of



MAP OF THE ORGANS.


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Era. But the Author's maps had been published nineteen years before he saw that the twelve groups had the same character and arrangement as the parts of the New Jerusalem.
All these facts prove that there was no intention on the part of these scientists to plan out something which should fit and explain the Bible. Any mistake in locating the groups would have spoiled the whole arrangement and resemblance. And if the Author had not discovered the true structure of a perfect Society, based upon the wants and faculties of man, then there would have been no practical value in the resemblance. The traits of character which marked each tribe of Israel were well known to Bible students. But none of these students suspected that if we put all these traits together they will exactly cover the twelve groups of faculties which make up the human mind.

The New Jerusalem was planned after the noblest model that the human mind can conceive. For man is the image of the Divine Being, and every one of his faculties and the proportion and relations of these, are faithful copies of the divine original.

The Messianic Kingdom is both material and spiritual. Everyone of its departments has its direct source and counterpart in some department of man's spiritual nature. Thus the department of Science, has its source in the Reasoning faculties ; that of Religion has its counterpart in the religious organs, and so of every part of the social structure, its foundation is in the spiritual nature of man. This was never before true of any system of government or national life.

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SEPHERVA.
This is the first form of civil society which has ever recognized reform and growth as normal and proper. Ample provision is made for these through its groupate of Culture.

It will never need to be changed for another form of society. For its constitution is in complete harmony with that of man, and it will permit of his unlimited advancement throughout coming ages.

Each tribe in the City is ruled by a male and female chief, and over these are the Prince and Princess, twenty-six rulers in all. Twenty-six is the number of the sacred name, Jehovah, and Ezekiel declares this name is embodied in the very plan of the City, and the Apocalypse declares the same thing.

Gathering the Tribes.-The work of organizing and locating the Bands of Israel, is the true work of gathering and sealing the twelve tribes of Israel. All nations, whether lineal descendants of Jacob or not, are to be thus sealed and gathered. They cannot have the name of Jehovah in their foreheads or in their hearts, unless they are in tribes, for the meaning of the tribes is in the number of his name, which represents the twenty-six rulers, two for each tribe and two centers.

Each band in society is like the ancient nation of Israel in miniature, and each state and nation presents the same features on a larger scale. The group of Religion is formed of members with dominant religious faculties; they are like the ancient Levites. Those with leading ambitious faculties are Josephites and go into the group of Rulership. And so of all the groups in society. By knowing what traits of character predominate in a person,

that many other people will be among the Israelites when they return, and that these shall have their inheritance with whatever tribe they may cast their lot.

Obeying the supreme law of Yehovah, the stick of Joseph is here joined with that of Judah, the long rent houses of Judah and Israel are united forever, and in them all the nations shall be blessed.

On the site of the ancient capital of Palestine a new City shall lift its magnificent domes toward heaven. The geographical center of the earth shall become the center of unity and power for all nations. And the ransomed of Yehovah shall return, and come to Zion with songs and everlasting joy upon their heads. The law of Yehovah shall go forth from Zion and the word of Yehovah from Jerusalem. For in the very plan of the New Jerusalem are embodied and illustrated the great laws of personal and national righteousness. The arrangement of its parts shows the balances and responses of the different parts and interests of society. Measuring in either direction across the city we will find parts which balance and respond to each other according to the laws of social polation. The Archetype of Society will illustrate these vital responses.
The front and back groups, on the same level, respond to each other, and their action pivots on the one between them. For example, the group of Art produces, and that of Commerce distributes, while both center upon the Home, or where their materials must be stored. Without material Wealth the group of Letters would not lead men to accumulate the records of knowledge, and without the family group between them, men would not per-

## GATHERING THE TRIBES.

petuate these records in families and communities. The group of Science discovers and invents, and then that of Labor applies these inventions in practical life. Both these have a high center in the vitally creative forces of marriage. The group of Culture leads us to improve and perfect our character, and then the group of Rulership impels us to take that rank in society which our culture merits. Both groups center upon Religion, for this includes in a comprehensive way, our relations to humanity and to the divine life.

In the New Life, the members of society make temporary exchanges of employment or of position with those who are their thirds, fifths, or octaves. For example, those in the department of Food-culture may exchange with those who are in the department of Luxuries; those in the groupate of Wealth may exchange with those in the groupate of Rulership. The different branches of labor are therefore related to each other by fixed and eternal laws of harmony.
Through these exchanges, the members secure a wide but systematic variety in their work and pleasures. And by thus calling all their faculties into activity, they prevent that partial development of personal character which would result from incessantly using a few faculties in one vocation. Such exchanges and harmonies were not possible in any of the societies of civilism.

The labors of society should succeed each other according to the law of mental responses. For example, the mind is rested and harmonized by passing from the work or amusements of the groupate of Art to those of Science; from that of the Family to that of Religion; from that of Wealth to that
 THE THRONE.
nal, for it is based upon eternal laws. Its twelve foundations are these; Art, Letters,, Sc:ence, Culture, the Home, the Family, Marriage, Religion, Rulership, Labor, Wealth, and Commerce. The laws governing these include the whole of a perfect life, for both persons and nations. And these laws are written in the constitution of man, in his inward nature, where Jeremiah says that the New Covenant should be found written. It should not be merely upon tables of stone, like the Mosaic law. All other systems of government have been the contrivances of man, but this is cut out of the mountain without men's hands. Although God had told man so emphatically where the New Covenant would be found, yet no one seemed to believe what he said and no one searched in the constitution of man to find it, until twenty years ago, when the successful explorations described in this book were commenced.
The Hebrew prophets speak of the government in the Messianic age as a Kingdom. But it is not a kingdom in the old sense of the term. It is not maintained by arbitrary decrees. It is a perfect Republic, for all of its rulers must be elected by a free choice of its members, and it recognizes no organic laws except those written in the very nature of man, and fully demonstrated by the fixed methods of science. With this understanding, we may still speak of it as a Kingdom but the proper title of its two chief rulers is in English, the Prince and Princess.
The Throne.-Both Ezekiel and John saw the vision of a great Throne. In our engraving of this throne of Israel, the central sun shows the two central rulers. The emerald bow represents Love

serpent by the path, and in Europe and America Labor was forced to organize in secret. It bites the horses heels, and the rulers fall backward, fall out of power and place. And then shall come salvation, said the Patriarch of Israel. For then organized Industry shall supplant civilized competition, Labor shall then no more be cursed. No longer a serpent, it walks erect in wisdom.

In vain may the rulens of earth seek to avert the blow, and to perpetuate their power. A greater power than theirs has opened the seal. Justice has long slumbered, but the hand that wields the sword is swift, mighty, and ubiquitous.

Third Seal.-This was represented by a rider on a black honse, with a pair of balances in his hand. It belonged to the group of Commerce and symbolizes the first form of the Atonement. This will lead us to consider and correct a great mistake which has been made in regard to nature of sacrifices, and their use among the ancients.

Nature of Sacrifices.-The Sacrifice was a feast offered by man to Yehovah. It was a feast expressing reconciliation, or goodwill, or gratitude. The entire Mosaic laws on this subject, the history of aneient Israel, as well as that of all nations, prove conclusively that this was the character and the import of all the sacrifices. This will appear very clear if we briefly consider the actual facts of the case.

First then, we must note that every object offerred in sacrifice consisted of some kind of food. It must be in a condition to be eaten before it could be accepted as a sacrifice. If of flesh, it must be cooked; if of fruit, it must be ripe.

Among all eastern nations, the act of eating

as an indication and a symbol of reconciliation. If man had offended the Deity, then he would offer him gifts of the best fruits and flesh just as he would to an earthly prince or a friend. If the man's offence had been great, he would not partake of the feast himself, but would stand meekly by and witness the "sweet smelling savor" ascend to Yehovah.

Hebraists inform us that the word olah, by which the burnt offering was commonly called, signifies that which ascends; the flesh is spoken of not as destroyed by burning, but rather as sent up in the fire like incense to Yehovah. The phrase "sweet smelling savor" is used so often, even in regard to the greatest of the sin-offerings, that there can be no possibility of mistaking that it was as food, as something to gratify the appetite, and to symbolize that life which we derive from food, it was for this that Yehovah accepted the sacrifice. It was a most appropriate and a most striking symbol that man's life, seperated by sin from that of God, was, through returning obedience, again united to its divine fountain. A token that man and God were again partaking of a common life. In most of the sacrifices, the priest, acting as the representative of the people, partook of the sacrifice, ate a part of it. And in the greatest of all the sacrifices, that of the Paschal Lamb or Passover, (see Exodus 12 : 27) the people ate the whole of it; not a morsel must be left.

We must next observe that the element of Pain, the shedding of blood and killing the animal, was never in any case, a part of the sacrifice, nor is it mentioned as such. There were directions about
the way the animal should be killed, just as the Jews were then, and are at the present time, careful about how animals are to be killed for common food. And because the blood contains all the elements of life, all the materials out of which the living structures of the body are formed, therefore the blood was very properly used as a symbol. While it was yet warm and living, it was sprinkled upon the altar or upon the people, as a token of the interchange of life between man and Yehovah. If the blcod became cold or coagulated, and thus showed any indication of death, then it could not be used. So careful was the Law to exclude the idea of death, of pain, or of punishment, from the sacrifice. These formed no part of its meaning.

The sacrifice represented a present fact, then and there accomplished. The reconciliation must take place before the sin offering could be made. It was not a prophecy of something in the future, it symbolized a fact already past. It was not a prophecy except in this sense ; that in the Kingdom, man will yield a constant obedience and will enjoy an equally constant and conscious union with the divine life.

There have been nations so degraded as to eat human flesh as food. So, too there have been those who offered human sacrifices. But among the Israelites, this was forbidden under the most awful penalties and curses of Yehovah. And surely if this were so revolting in the symbol it could not be less shocking in the antitype. Neither Jesus nor any other man, could be offered as a sacrifice under the law. Surely the the law cannot be satisfied by violating both its letter and its spirit in the most flagrant manner.



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SEPHERVA.
To confine the atonement to one man and to one event, as the Christians have done, is to make the doctrine only a monstrous falsehood, thoroughly selfish in the motive it presents, and utterly opposed to all the laws of justice, of vital sympathy, and of causation.

Sacrifices Restored. - In our life in the messianic kiugdom every meal will be eaten and regarded as a sacrifice. For we shall realize the fact that the life of our food, from which our own life is constantly supplied, has its central source in the life of Yehovah, and our union with his life will be conscious, full, and perpetual.

At the vernal and at the autumnal equinoxes will be the two great sacrificial feasts of the year. The two secondary feasts will be at the summer and the winter solstice. The third class of minor feasts will be every twelfth day. Over all these feasts the Pastor will preside. His office is the higher octave of Appetite.

In that life, Yehovah has promised that " He will dwell with men," he will not simply come as an occasional guest, to eat at a special table. Therefore there will not and need not be altars on which to offer the sacrifices. Every eating table be a consecrated altar in the true life.

When we urge a person to do right instead of wrong, telling him that he can reform if hewill, our own nerve-force added to his may be sufficient to turn the scales of his mind in favor of the right. The earnest and true reformer should address the highest faculties, and enlist the sympathies of the public feeling, if he would open the most direct channel of influemce.

Obedience and Law. - Obedience brings Life,
cess of cure consists in restoring good conditions, and in adding such new ones as the altered states of the organs demand.

Length of life.-The amount of life is measured by the variety of powers, and the ability to resist those causes which tend to destroy the body. This quantity increases from infancy to maturity. Causes which would destroy the life of a child, seem scarcely to affect the health of an adult. There is no reason, that we have learned, why our physical existence might not be continued indefinitely, if all of the conditions of life were fully maintained.

The most eminent medical men in Europe and America are agreed that if the laws of health were obeyed there would be no disease, and in that case life might be as easily prolonged to a thousand years as to a hundred. The prophet, or rather Yehovah, promises that in the new heavens and new earth people shall live as long as a tree, that death itself shall be swallowed up in eternal life. A tree lives one or two, or even five thousand years. There certainly is nothing in science to oppose the idea of such a life for man.

Worth of Life. - But suppose that we were not assured of immortality, yet we can be absolutely certain that human life could be ushered in by a painless birth, that through long centuries it can be one scene of unalloyed happiness, that when old age should finally come, it would be a gradual fading out of life. We know that for generation after generation, human beings must live on this earth. And the possibility of removing the great evils of the race, is sufficient to move us to the mightiest efforts to transform the old conditions of human life, and banish the dark hosts of disease,

## FOURTH SEAL.

of social wretchedness and of national discord, from the fair face of the earth. Life may be made eminently worth living.

With the higher development of the nervous system, the causes which influence the physical health of man become more and more of a spiritual al nature, more and more dependent upon his intelligent obedience to higher laws of spiritual life.

Human life is not simply individual, each one independent of the rest. Our lives are so bound up in the lives of others, that as separate individuals we cannot yield a full obedience to the laws of life. There must be a collective obedience of society, before the life of any one of its members can be complete, or secure.

Fourth Seal.-The symbol of this was a pale horse, and it represents the reign of death through Appetite and the senses. This began in the Garden of Eden with the Tree of Life. It must end by opening the way of the Tree of Life, as we shall see in the following exposition.

The Cell.-The molecules of bioplasm arrange themselves in the form of Cells. The cell is usually microscopic in size, it may have an external cell-wall, and an internal circulation of its parts around the nucleus, N . The cell is the organic unit of structure. For all vegetable and animal tissues are formed by the evolution and action of these minute cells.

In the mineral or lifeless world, we find the unit of structure in the Crystal. The crystal is bounded by straight lines, and its poles, or lines of force, point outside of itself, as seen-at $\mathrm{AB}, \mathrm{CD}$, and EF, in the initial engraving. The cell, on the other hand, also pesseses circular polarity.




If we dissect out the arteries, the veins, the lungn, the glands, the nerves, or any other organ of the animal body, we shall perceive that each one is formed on the plan of the leaf, and its parts exercise the same relative functions. We see this plainly in the tubes and aircells of the lungs, and in the various organs shown in the engraved plan of the physical organism.
The humar brain is the highest and most perfeet example of these tree-forms. The spinal cord is a vast bundle of nerve-tubes, and it passes upward, branching out through the striatum and thalamus toward the surface of the brain, where they terminate in the multitude of nerve cells, which compose the convolutions. This is shown in the engraved Plan of the Brain, and on the next page. This last is only idealized so far as to be taken out of the body and planted in the earth, and to have its cells enlarged so as to be visible to the naked eye. It is physiologically exact. The tree form is very evident in this drawing. We do not mean that the brain merely looks like a tree, or resembles one externally. But we do mean that it is an actual tree, and that by the most rigid seientific examination it is shown to fulfill the ideal type and plan of a tree more completely than any tree of the vegetable kingdom.

The spinal cord is the trunk of this great tree, and its roots are the nerves of feeling and motion, branching out over the body. It is a tree planted in the midst of many others, in a garden of Eden.

The brain of man is the great Tree of Life, spoken of by the ancient poets and seers of all nations. Its twelve groups of organs bear twelve kinds of fruit. And through the phases of child-






ways be subordinate to the higher ones. The once conflicting interests of the society are adjusted and balanced by fixed and natural laws of harmony. The fierce and selfish passions which led to war and oppression can no longer rule the nations. The whole character of these lower passions will be changed, softened, and directed to new objects, by the higher powers.

The great Battle with the Beast is already begun. It is the conflict of both spiritual and material forces, of both institutions and nations. And woe to the statesman who puts on his followers the " mark of the Beast." And he does put this mark on them if he says that selfinterest, or in other words, the beastly faculties, must rule in - politics or in social life. The Cotton and RailRoad Kings, the Merchant Princes and Bankers of Christian Civilization, have the same brand of darkness on their right hands.

The Seer of Patmos saw the word Mystery, in Greek, Mysterion, written on the forehead of the great image of Babylon. The forehead is the seat of the understanding, the intellect, the eye of the mind. Hence a mark on the forhead must mean a mark on the understanding, in our intellectual conceptions or knowledge. The lower faculties specially delight in mystery, in secret methods, in great swelling words of vague import, in things which per plex our reason, and foil philosophy. In deliberately affirming and teaching " that the Doctrines of Religion are Essential Mysteries" not to be penetrated by the reason of man, in teaching and beliving this, the Protestant, the Catholic, and Greek Churches have alike branded themselves on the forehead with the accursed
mark of the Beast and of Babylon. There is no other possible interpretation to this mark of darkness.
Law of Symbolism. - The process of Construction or growth always involves a succession of steps, taken in a definite order. Thus in the construction of a house, there must first be a foundation, and then the framework, the walls, the roof, floors, plastering, and finally the finish of paint and paper. In the growth of a plant, there is the succession of the seed, the plumuleand radicle, the stem, branches, leaves, flowers, and fruit. But conversely, the process of Destruction requires no regularity. We may destroy a house or a tree in a hundred irregular ways. We may burn it, or cut it down, or tear it in pieces, or let it perish by natural decay.

This great law, governing constructive and detructive processes, must apply fully to prophetic symbolism. Those symbols which refer to the formation of new institutions should be fulfilled with exactness of form and order. But those which refer to the destruction of old institutions and modes of life need never be fulfilled with any precision. In the latter class of symbols there are many monstrous objects, such as never had or will have a literal existence. The Great Red Dragon, the Beast with seven heads and ten horns, and such monstrous images, do not require an exact fulfillment. For they represent destructive things or events. In vain may commentators exert their wits to make these and similar figures fit the events of history with any sort of exactness. The law does not require it. These destructive symbols occupy four fifths of the Apocalypse. The





In the New Life we restore the Cross to its true place as a symbol of the universal framework of life. We place it forever above the danger of that corruption which the Cross or phallic worship sometimes reached in the ancient ceremonies of Assyria and Greece. The clear laws of sexstructure and function given us by the science of physiology and its noble applications in rules of hereditary descent and sex harmony, have now displaced the mysteries which surrounded this sul,ject in olden times. Evil allies itself naturally with the darkness of ignorance and mystery. Virtue walks in the clear and open light of wisdom.

The Serpent has been associated with religious symbols from the very dawn of history. And this symbolism is based upon a fundamental law of our physical life.

The two polar qualities of the mind and the body are Attractiveness and Repulsiveness ; the power to attract and receive impressions, and the power to repel and throw off both impressions and persons. They are equally essential to our welfare and happiness.

The amount of repulsive power is indicated by the length and the strength of the spinal cord and column. Animals with a great deal of repulsiveness have long and strong backs, like the Saurians, lizards, crocadiles, cats, worms and serpents. The cat arches up her back to display this feeling, and the strong currents of nerve force cause the hairs to "stand on end" all along this line of discharge. We naturally turn our backs upon persons or things which are repulsive.

The quality of Repulsiveness is associated most directly and fully with the back and base of the


brain, the lower instead of the higher faculties. Hence we can see why the serpent was chosen to represent the lower faculties, the sphere of evil in man. For of all animals, the Serpent has this quality developed in the very highest degree.

The law of cephalization, explained in the seventh chapter, shows that the whole growth of organic life and of human history, has been a passage from the rule of the base and back-head faculties to the rule of those at the top and front. On comparing the brain and spinal cord of man with those of the serpent, we at once perceive the great relative size of the brain in man. The life of the serpent is chiefly in his body; that of man is centered in his highly endowed brain and mind.

The onward and upward march of man has been a perpetual conflict with the serpent in his nature, and it must end in the final triumph of his higher over his lower faculties. No man hasbeen safe from the cunning selfishness of his fellowman, but in the New Earth of the kingdom, even the child may put his hand upon the den of the serpent, and fear no evil.

Under the influence of the higher organs of the brain, the repulsive power of the spinal cord is used to repel evil things and evil conditions. It becomes a mighty instrument of good. It is the axis of uprightness in the just man ; the unswerv ing resistance, without which virtue would yield passively to every temptation and break down under every trial. It is an essential element of moral greatness and elevation. It is not less necessary as the guardian of physical health, the power to resist and throw off the causes of disease. By strongly exerting the will, we may re-

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sist and escape causes of disease which would at once overpower us if we were passive or negative. A good back-bone is a mainspring of health.

What was once the cause and the instrument of $\sin$ and evil in man, while it ruled him, is the very citadel of moral defense and the strong arm of health, when it becomes the servant of his higher nature. It was with the extreme propriety of exact truth that the serpent was chosen to symbolize evil, and was associated with the Tree of Life in the beginning of man's sinful career. It was with equally exact scientific truth that Moses lifted up the serpent in the wilderness as a symbol of healing, and that the Messiah was called the good serpent, who was to bind and destroy the old serpent, the leader of the hosts of evil with his myriad followers in the animal nature of men. This is vividly described in the Apocalypse of John.

The Caduceus of Mercury, the two serpents twined around a rod, were not only a symbol of wisdom and power, but also of the Healing Art, of Esculapius and his work in restoring the body. The serpent in man, the spinal cord, becomes in the New Life, the actual trunk of the Tree of Life, whose leaves are for both the spiritual and the physical healing of the nations.

Both Tree and Serpent worship has extended very widely, and has been interwoven with the life and language of all peoples. With us, in Israel, the divine cross in man and in the great city, is a living standard by which our daily conduct is measured, and the perpetual balance of its forces is adjusted. And the serpent in man is no longer the emblem of sensualism, but of moral vigor.




import ef the terms used in that account. The first word used there is Bereshith. Its factors, by analysis, are +2 , and $2 \times 26 \times 10$. If we translate these sacred numbers, we get this statement: In the primary conception of all things, spirit existed along with matter. These two acted and reacted upon each other according to, or guided by, the twenty-six attributes of Yehovan, until these attributes became expressed in material objects and laws, placing man as the crown of the organic series. No scientist can now speak of the beginnings of world-growth in more exact terms.

The word Bara, translated "create," does not mean to produce from nothing. Its number is 203. This number means that at first there are two things, and these, left free to act upon each other, produce a third thing. Now this is precisely true in every act of making or formation. It must have been as true 6000 years ago as it is to day. The phrase "Vayomer Elohim," "and God said," is used in the account nine times. The number of this phrase is $7 \times 7 \times 7$. As 7 means spiritual force or dynamic energy, this phrase means that spiritual force was used three times, or to the fullest possible extent, as the creative factor. It does not mean that God simply uttered the sounds "Vayomer."

It has been supposed that God has a right to rule the world because he made it. But he is not the God of the dead, but of the living. His rulership depends upon his now being the center of all spiritual forces.

Another error of many philosophers was in regard to a first Cause. A single example will illustrate this. The chemical change of combustion


## PHASES OF GREEK MENTAL LIFE.

Infancy. - From Homer, 800, B. C., to Thales, 636, B. C. They believed the earth to be flat, and full of dragons, monsters, and marvels.
Childhood.-From Thales to Socrates, 469 B.C. Opening of Egyptian ports, 636 B. C., stimulates Greek thought. Thales teaches that the First Principle is water, and the world has a soul. Anaximander, B. C. 610 , discovers obliquity of ecliptic, teaches that the earth is a cylinder; that the sun acts on the miry clay, producing filmy bladders, with a prickly rind, and from these, animals come forth. Pythagoras believes that all things are constituted by the laws of Sacred Numbers.

Youth.-From Socrates, 469 B. C., to Epicurus, 342. Socrates says that mathematics and physics lead to vain conclusions, and Plato thinks that the senses are illusory. He believes that God, Matter, and Ideas are the three primal principles. Epicurus believes in pleasure through temperance, but rejects immortality. Phidias and other artists carry sculpture to a high point of excellence.

Maturity.-From Aristotle, 384, B. C., to Hipparchus, 168 A. C. Aristotle developes the Inductive method in science. Teaches that organic beings form a connected chain. Thinks that the brain is devoid of blood and of sensation. Euclid, 300 B. C., developes Geometry. Archimedes writes on the sphere, cylinder, endless screw, etc. Eratosthenes, 276 B. C., unfolds the first principles of geclogy. Hipparchus, $168 \mathrm{~A} . \mathrm{C}$., discovers precession of equinoxes, and catalogues 1080 stars.

Senility - From 213 B. C. to the closing of the schools of philosophy by Justinian, 529 A . C. It produced mystical and impractical speculations.

## WORDS OF THE TEACHERS.

Thou shalt love Yehovah with all thy heart, and thy neighbor as thyself. Moses, $157 \mathrm{I}, \mathrm{B}$. C.

To those of a noble disposition, the earth itself is but one family. Religion is tenderness toward all creatures. Hestopades, vishnu sarman. B. C. 1000.

The wise man avengeth his injuries with benefits. Lao- Tze, 604 B. C.

If thine enemy hunger, give him bread to eat; if he be thirsty, give him water to drink. Solomon, 1000 B. C.

Hatred does not cease by hatred at any time. Hatred ceases by love. This is the eternal law. DhamMAPADA, 600 B . C.

The true doctrine consists in having the heart right, and in loving one's neighbor as one's self. Reciprocity is the one rule of practice in life. What you wish done to yourself, that do to others. Kong Fu. Tse, 551 B. C. in Lun Yu, 15, 23.

All things whatsoever ye would that men should do to you, do you even so to them, for this is the law and the prophets. Jesus of Nazareth, 3 I A. C.

The love of all to all, is the moral rule of life. Pythagoras, 500 B. C.

He who commits an injustice is ever made more wretched than he who suffers it. It is never right to return an injury. Plato, 387 B. C.

As for the Truth, it endureth and is always strong ; it liveth and conquereth forever more. It is the strength, the kingdom, the power and the majesty of all ages. Zerubbabel, $520 \mathrm{~B} . \mathrm{C}$.

Tolive, is not to live for one's self alone, let us help one another. Menander, 293 B. C.

Nature has inclined us to love men, and this is the foundation of the law. Justice devotes itself wholly to the good of others. Cicero, 30 B. C.

The moral condition of the world depends upon three things-Truth, Justice and Peace. Rabbi SiMON, 150 B. C.

## NERVO-SYSTEM

Brain.
Mentorgans-Rad. Fibres, Cells, Converg. Fibres.
Centers-Striatum, Thalamus, Ucenter,
Commissures-Ucefalon, Callosum Tuberum.
Nutro nerves.
Fibres-Distributed to all the Organs.
Ganglions-Cardicus, Gastricus, Pelvicus.
Bands-Fibres, con. ganglia and Spinal Cord.
SENSI-MOTORS.
Sensors-Special and Spinal Nerves.
Centers-Medulla Spinalis, Encephaion.
Motors-Special and Spinal Nerves.

Genitals

## NUTRO-SYSTEM.

Femorgans-Vulva, Ovary, Uterus.
Flower-Pistil, Ovary, Stamen.
Mascuorgans-Penis, Testis, Vesiculus.
Alimentors.
Ingesters-Mouth, Salivators, Throat.
Digesters-Stomach, Glands, Intestines.
Egesters-Anus, Kidneys, Skin.
Circulators.
Arteries-Pulmonics, Capillaries, Systemics
Heart-Auricles, Valves, Ventricles,
Veins-Pulmonates, Lymphatics, Recursors.

## MOTO-SYSTEM

Muscles.
Flexors, | Head, |Voluntary, Sphincters, Extensors, Trunk, Mixed, Striated. Elastic tis. Body. Limb, Involuntary, Non-Stri.

Head-Face, Corona, Neck.
Trunk-Thorax, Abdomen, Pelvis. Limbs-Manupes, Arms, Legs.
Bones.
Head Bones-Cranium, Nasum, Maxillæ
Trunk Bones-Ribs, Sternum, Vertebræ..
Limb Bones $\left\{\begin{array}{l}\text { Shoulder, Arm, Hand. } \\ \text { Thigh, Leg Foot }\end{array}\right.$
Shoulder, Arm, H
Thigh, Leg Foot


## CHARACTER OF THE TWELVE TRIBES OF ISRAEL.

## As Described in the Bible and by Jewish Historians.

(See Genesis xlix. and Milman's and Benisch's History of the Jews.)
In a perfect structure of Society, the members are in twelve groups, each having a dominant group of mental organs, and devoted to corresponding pursuits. The twelve Tribes of Israel were marked by just these same differences, and hence ancient Isruel was a true, though an undeveloped type, of the final Social Organism. The grouping of the members in society is the real work of "sealing in tribes" spoken of in the Apocalypse. The names of the tribes, below, are followed by their ruling mental groups, in small capitals, and by the meaning and number of their Hebrew names, in italics. In the Rreast Plate and New Jerusalem the tribes have the same arrangement as the mental groups in the brain.

JUDAH. Marriage. Heb.-Praise. 5x6. A lion; loving, faithful, and strong. The kingly bridegroom of New Jerusalem and Palestine.

LEVI. Religion. Heb.-Joined or unity. $46=5 \times 8$-1- 6 . Religious, zealous and intense. The priests of this tribe held uf the Lights and Perfections of Religion.

JOSEPF. Rulership. Heb.-Adding or Increase. $6 \times 26$. A ruler crowned nver his brethren; ambitious, dignified and aspiring; pushing with the horns of the unicorn.

NAPHTALI. Culture. Wrestling. 570. Swift of foot, bland in manners, speaking good words; his group is in the Line of Progress.

ASHLR. Science. Bringer of Happiness. $10 \times 10 \times 5+1$. MixIn with th Phcnecians, they became the most scientific of the tri . The railway, locomotive, and engine are the shoes of iron and brass, bringing luxuries to us all.

DAN. Labor. Judging. $6 \times 9$. Shrewd and keen; a swift judge against the oppressors of the poor; striking unjust rulers in secret.

GAD. Letters. A Troon or Multitude. 7. His seat was with the law-givers, and the multitude of facts he at last gathers into order.

REUBEN. FAMILISM. See a Son. 259. Paternal kindness, pious care. Let not his men be few. As the eldest born, he represented the family.

BENJAMIN. WEALth. Son of the right hard. $5 \times 19$. Bold, warlike, and acquisitive. A wolf going to the prey and dividing the spoil.

Simeon. Art or Perception. Hearing or Perception. 470. The simeonites became the scribes and musicians, the artists of Israel.

ZEBULON. Home. Dwelling. 178. Love of home and its comforts, of sensuous pleasures, of landscape and waterscape.

ISSACHAR. COMmERCE. A hire. 830. A strong ass, bearing two burdens, the beast of Hebrew commerce; a worker for hire

SIGNIFICANCE OF THE SEALS.

In the visions of John he saw the Truths of the Bible, and the effects of these on man, represented under Seven Seals. These are illustrated in the engraving. Five of these seals are double or cover two groups of faculties, while two of them are single, the fourth and the seventh.

The great work of Human Redemption has its source deep in the very nature of Yehovah. There we find its sustaining fountains of force. In doing each rart of the work God has to exert a special part of his own faculties, because that part of the work has to reach and affect a special part of the spiritual life of man.

Thus the events of history which occur under the seventh seal are brought about by the exertion of the Religious group of faculties in God's nature. So also he exerts his faculties of Rillership and Labor, in the work of judgment or the second seal.

The Resurrection is a revival of personal history and consciousness. But these spring from the groups of Letters and Art, or memory and perception. Without these groups we would care nothing for our past existence and experience, we would not desire to have our life renewed and perpetuated by the resurrection. In this way we may reason concerning each one of the seals. For each one has its basis and its support in some part of our faculties.

Some of the seals cover two groups of organs because that the changes produced by them both occur at the same time. The formation of Tribes in the Kingdom, and the Divine Marriage will both occur together, and they are therefore represented under one seal.

The Seals cover not only the constructive work of the New Life, but also the preparatory work of destroying the evils of the worid. The latter is attended by great commotions among men, and precedes the work of the new Creation.
The Seals are explained at length in the ninth chapter of the Book of Israel.


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THE KINGDOM OF THE MESSIAF.

## Its Character as <br> Proof Texts.

Ezek. 1: 15 to 28.
Isa. 25: 6 to 9.
Isa, 11: 1 to 16.
Isa.32: 1,2,17,18.
Dan. 7: 9 to 16.
Dan. 2: 31 to 45.
Jer. 31: 31 to 40 .
Isa. 60: 1 to 21.
Gen. 49: 1 to 28
Exod. 28: 15-21.
Isa. 65: 17 to 25 .
Isa. 35 : 1 to 10 .
Isa. 49: 1 to 12.
Isa. 4: 1-6.
Isa. 55: 1 to 13.
Isa. 66: 6 to 12 .
Gen. 2; 8 to 16 .
Ezek. 47: 7 to 12 .
Jer. $33 ; 15$ to 22 .
Jer. 34: 1 to 15 .
Ezek. 34 : 10 to 16.
Isa. 11: 10 to 16.
Ezek. 28: 21-26.
Ezek. 36: 28.
Ezek. 37 : 15 to28.
Ezek. 48: 1-35.
Isa. 62: 1-7.
Micah 4: 1-5.
Isa. 43: 1-6.
Ezek. 38: 1 to 23.
Ezek. 39: 1 to 29.
Isa. 28: 16-21.
Isa. 52: 1-12.
Joel 3: 2-13
Zech. 14: 6-16.
Isa. 19: 18-25.
Mal. 3: 1-5.
Mal. 4: 1-6.
336 verses.
These were unfulfilled in 1881. It is claimed that some 60 verses not any of these) were fulfillet 1800 years since. But that 60 verses is only onesixth part of the whole number of Messianic verses in the Prophets.
and Described by the Prophets.
The splendors of the Messianic Kingdom were described by the Hebrew Prophets in all They proclaith of Oriental imagery
which had so long concealed the Mystery spiritual laws from the vision of man realm of spiritual aws from the vision of man shall be rent and removed through the hand of the Messiah. His surpassing wisdom shall establish a perfectsystem of Life and Government One which shall forever unite the laws of spiritual with those of physical harmony, the internal with the external worlds. The solid and enduring framework of its laws shall be a reflected part of the Divine Mind itself, and be imaged forth in the very structure of an inherent part of his constitution. Its twelve departments were represented by the twelve tribes of Israel, as an undeveloped type. They correspond to every part of man's nature, and provide for every human want.
The beneficient power of that Kingdom shall glorify the earth with universal wealth, physical health, and domestic happiness. No tears shall stain private life, no disease invade and mar our bodily pleasures. and no wars or crimes shall blacken national history. The very face of nature shall be changed and renewed under the molding hand of man.
One clear Standard of Truth shall guide all men with equal safety, so that even the wayfaring man shall not mistake in the way. Under one system of government and with one common language, all nations shall be united in a vast composite life.
In that day, the very age of the Messiah's appearance, the mighty hand of Yehovah shall stretch forth and gather the Twelve Tribes descended from his ancient people of Israel. He shall plant them forever, in the land of Palestine, as the central nation of che worl From its capital, the New Jerusalem, shall go forth the political and moral laws of Yehovah forth the poitunited nations of the world.
to guide the united nations or established by
such was the king are the prophecies unthe Messiah, and such 281 or Hebrew year 5642 . fulfilled in this year 1881 orlom has now been

The plan of this Kingdom has now been discovered, and its details demonstrate It through the positive methods of Science. It through the posinstitutions of Society. It Is involves New finstidoption, by all nations. NOW READY for adioption, man must be the And, under divine direction, man must growth and instrument to effect its sp

## MESSIANIC PROPHECIES

## DESCRIPTION OF THE KINGDOM.

The following description of the Kingdom is given in the exact anguage of the prophets. It is from the foregoing proof texts and some verses
The reader must bear in mind that by the "House of Israel, or Fphraim" the prophets mean the ten tribes who revolted under Jereboam and by "House of Judah," or simply Judah, they meant vi. These are now mixed together as the modern Jews.

The New Farth. For behold I create a New Heavens and a New Earth. And the former shall not be remembered nor burden the mind
But be ye glad and reioice forever in that which I create, for behold I create Jerusalem a rejoicing and her people a joy, and the voice of weeping shall no more be heard in her
Duration of Life. Infancy shall no more be reckoned by days, nor old age by years; for a person dying an hundred years old shall be called a child. And they shall bnild houses, and inhabit them ; they shall plant vineyards and eat the fruit of them. They shall not build and another inhabit, they shall not plant and another eat, for as the days of a tree shall be the days of my people, and mine elect shall long enjoy the work of their hands. They shall sit every man under his vine and under his fig-tree, and none shall make them afraid.
They shall not labor in vain, nor give birth to children for trouble ; for they are the seed of the blessed of Yehovah, and their offspring with them. And it shall come to pass that before they call I will answer, and while they are yet speaking, I will hear.
Universal Peace. The wolf and the lamb shall feed together, the leopard shall lie down with the kid, and the calf and the youug lion together, and a little child shall lead them. They shall not hurt, nor destroy in all my holy mountain, for the earth shall be full of the knowledge of Yehovah, as the waters cover the sea.
The people shall beat their swords into plowshares and their spears into pruning hooks. And nation shall not lift up sword against nation, neither shall they learn war any more.
Yehovah's House. And it shall come to pass in the last days, that the mountain of Yehovah's house shall be established in the top of the mountains, and shall be exalted above the hills, and all nations shall flow unto it. And many people shall go and say, "Come ye, and let us go up to the


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MESSIANIC PROPHECIES
mountain of Yehoval,, to the house of the God of Jacob, and he will teach us of his ways, and we will walk in his paths: for out of Zion shall go forth the Law, and the word of Yehovah from Jerusalem. And he shall judge among the nations, and shall rebuke many people.

The Feast and Veil. - In this mountain shall Yehovah of hosts make unto all people a feast of fat things, a feast of wines on the lees, a feast of fat things full of marrow, of wines on the lees well refined.

And he will destroy in this mountain the face of the Covering cast over all people, and the Veil that is spread over all nations. He will swallow up death in victory ! and the Lord Elohim will wipe away the tears from off all faces, and the rebuke of his people shall he take away from off all the earth, for Yehovah hath spoken it. And it shall be said in that day, Lo this is our God, we have waited for him, and he will save us. For Yehovah alone is the Saviour, the Redeemer of Israel.

The City.-Awake, awake, put on thy strength O Zion ; put on thy beautiful garments, O Jerusalem, the holy city ; for herceforth there shall no more come unto thee the uncircumcised and the unclean. Shake thyself from the dust, arise, and sit down, O Jerusalem, loose thyself from the bands of thy neck, O captive daughter of Zion. For thus saith Yehovah, Ye have sold yourselves for naught, and ye shall be redeemed without money.

How beautiful upon the mountains are the feet of him that bringeth good tidings, that publisheth peace and salvation; that saith unto Zion, Behold thy God reigneth! The watchmen shall see eye to eye, when God shall restore Zion.

Who are these that fly as a cloud, and as the doves to their windows? Surely the isles shall wait for me, and the ships of Tarshish first, to bring thy sons from far, their silver and their gold with them, unto the name of Yehovah thy God, and to the Holy One of Israel, because he hath glorified thee. And the sons of strangers shall build up thy walls, and their kings shall minister unto thee ; for in my wrath I smote thee. Therefore thy gates shall be open continually; they shall not be shut day nor night ; that men may briug unto it the forces of the Gentiles, and that their kings may be brought.

Whereas thou hast been forsaken and hated, so that no man went through thee, I will make thee an eternal excellency, a joy of many generations. Thou shalt also suck the



MESSIANIC PROPHECIES.
The Land Renewed - The wilderness and the solitary place shall be glad for them; and the desert shall rejoice, and blossom as the rose. It shall blossom abundantly, and rejoice even with joy and singing: the glory of Lebanon shall be given unto it, the excellency of Carmel and Sharon : they shall see the glory of the Lord, and the exeellency of our God.

Strengthen ye the weak hands, and confirm the feeble knees. Say to them that are of a fearful heart, Be strong, and fear not : behold, your God will come with vengeance even God with a recompense; he will come and save you.

Then the eyes of the blind shall be opened, and the ears of the deaf shall be unstopped. Then shall the lame man leap as a hart, and the tongue of the dumb sing: for in the wilderness shall waters break out, and streams in the desert. And the parched ground shall become a pool, and the thirsty land springs of water; in the habitation of dragons, where each lay, shali be grass with reeds and rushes. So shall ye know that I am the Lord your God dwelling in Zion, my holy mountain : then shall Jerusalem be holy, ard there shall no strangers pass through her any more. And it shall come to pass in that day, that the mountains shall drop down new wine, and the hills shall flow with milk, and all the rivers of Judah shall flow with waters, and a fountain shall come forth from the house of the Lord, and shall water the valley of Shittim.

Egypt shall be a desolation, and Edom shall be a desolate wilderness; for the violence against the children of Israel, because they have shed innocent blood in their land. But Judah shall dwell forever and Jerusalem from generation to generation. For I will cleanse their blood that I have not cleansed : for the Lord dwelleth in Zion.

And the Lord God planted, a garden eastward in Eden ; and there he put the man whom he had formed. And out of the ground made the Lord God to grow every tree that is pleasant to the sight, and good for food, the tree of life also in the midst of the garden, and the tree of knowledge of good and evil.

And a river went out of Eden to water the garden; and from thence it was parted and became into four heads. The name of the first is Pisorn, that is it which compasseth the whole land of Havilah, where there is gold: and the gold of that land is good : and there is bdellium and the onyx stone.
for them: and the stone that smote the image became a great mountain, and filled the whole earth.

This is the dream; and we will tell the interpretation thereof betore the king. Thou, O king, art a king of kings: for the God of heaven hath given thee a kingdom, power and streugth, and glory. And wheresoever the children of men dwelt, the beasts of the field and the fowls of the heaven hath he given into thine hand, and hath made thee ruler over them all. Thou art this head of gold.
And after thee shall arise a kingdom inferior to thee, and another third kingdom of brass, which shall bear rule over all the earth, and the fourth kingdom shall be strong as iron; for as much as iron breaketh in pieces and subdueth all things, and as iron that breaketh all these, shall it break in pieces and bruise.

And whereas thou sawest the feet and toes. part of potters' clay, and part of iron, the kingdom shall be divided; but there shall be in it of the strength of the iron, forasmuch as thou sawest the iron mixed with miry clay. And as the toes of the feet were part of iron, and part of clay, so shall the kingdom be partly strong, and partly broken. And whereas thou sawest iron mixed with miry clay, they shall mingle themselves with the seed of men; but they shall not eleave one to another, even as iron is not mixed with clay.

And in the days of these kings shall the God of heaven set up a kingdom, which shall never be destroyed; and the kingdom shall not be left to other people, but it shall break in pieces and consume all these kingdoms, and it shall stand forever.

Blessings of Jacob and Moses.-And Jacob called unto his sons and said, Gather yourselves together, that I may tell you that which shall befall you in the last days. Gather yourselves together, and hear ye sons of Jacob; and hearken unto Israel your father.

Reuben, thou art my first born, my might, and the beginning of my strength, the excellency of dignity, and the excellency of power: Unstable as water, thou shalt not excel; because thou wentest up to thy father's bed; then defiledst thou it ; he went up to my couch, Let Reuben live, and not die, and let not his men be few.

Simeon and Levi are brethren; instruments of cruelty are in their habitations. O my soul, come not thou into their secret; unto their assembly, mine honor, be not thou united; for in their anger they slew a man, and in their self will
they digged down a wall. Cursed be their anger, for it was fierce ; and their wrath, for it was cruel; I will divide them in Jacob, and scatter them in Israel. And of Levi, Moses said, Let thy Thummim and Urim be with thy holy one, whom thou didst prove at Massah, and with whom thou didst strive at the waters of Meribah; who said unto his father and to his mother, I have not seen him ; neither did he acknowledge his brethren, nor knew his own children; for they have observed thy word, and kept thy covenant. They shall teach Jacob thy judgments, and Israel thy law; they shall put incense before thee, and whole burnt sacrifice upon thine altar. Bless, Lord, his substance, and accept the work of his hands: smite through the loins of them that raise against him, and of them that hate him, that they raise not against him.
Judah, thou art he whom thy brethren shall praise; thine hand shall be in the neck of thine enemies; thy father's children shall bow down before thee. Judah is a lion's whelp: from the prey, my son, thou art gone up; he stooped down, he couched as a lion, and as an old lion, who shall rouse him up? The sceptre shall not depart from Judah, nor a lawgiver from between his feet, until Shiloh come, and unto him shall the gathering of the people be. Binding his foal unto the vine, and his ass's colt unto the choice vine, he washed his garments in wine, and his clothes in the blood of grapes. His eyes shall be red with wine, and his teeth white with milk.

Zebulon shall dwell at the haven of the sea; and he shall be for a haven of ships; and his border shall be unto Zidon.

Issachar is a strong ass, crouching down between two burdens; and he saw that rest was good, and the land that it was pleasant : and bowed his shoulder to bear, and became a servant unto tribute.

Dan shall judge his people as one of the tribes of Israel. Dan shall be a serpent by the way, an adder in the path, that biteth the horse heels, so that his rider shall fall backward. I have waited waited for thy salvation, O Lord.

Gad, a troop shall overcome him; but he shall overcome at the last. And of Gad he said, Blessed be he who enlargeth Gad: he dwelleth as a lion, and teareth the arm with the crown of the head. And he provided the first part for himself, because there, in a portion of the lawgiver was he seated; and he came with the heads of the people, he executed the justice of the Lord, and his judgments with Israel.


midst of them for evermore. My tabernacle also shall be with them ; yea, I will be their God; and they shall be my people. And the heathen shall know that I the Lord do sanctify Israel, when my sanctuary shall be in the midst of them for evermore.

The word of the Lord came untome again, saying, What mean ye, that ye use this proverb concerning the land of Is rael, saying, The fathers have eaten sour grapes, and the children's teeth are set on edge? As I live, saith the Lord Ged, you shall not have occasion any more to use this proverb in Israel.

Yet say ye, Why ? doth not the son bear the iniquity of his father ? When the son hath done that which is lawful and right, and hath kept all my statues, and hath done them, he shall surely live. The soul that sinneth, it shall die. The son shall not bear the iniquity of the father, neither shall the father bear the iniquity of the son ; the righteousness of the righteous shall be upon him, and the wickedness of the wicked shall be upon him.

But if the wicked will turn from all his sins that he hath committed, and keep all my statutes, and do that which is lawful and right, he shall surely live, he shall not die. All his transgressions that he hath committed, they shall not be mentioned unto him ; in his righteousness that he hath done he shall live.

The Gathered Tribes.-Thus saith Yehovah, the God of Israel, I will cause the captivity of Judah and the captivity of Israel to return, and will build them as at the first. Again in this place, which is desolate and without man and without beast, and in all the cities thereof, shall be a habitation of shepherds, causing their flocks to lie down. Behold the days come, saith the Lo:d of Hosts, that I will perform that good thing which I have pronised to the house of Israel and to the house of Judah. In those days, and at that time, I will cause the Branch of righteousness to grow up unto David, and he shall execute judgment and righteousness in the land.

In those days shall Judah be saved, and Jerusalem shall dwell safely; and this is the name wherewith she shall be called, the Lord our Righteousness. For thus saith the Lord; There shall not be cut off from David a man to sit upon the throne of the house of Israel; neither shall the priests the Levites want a man before me to offer burnt offerings, to kindle meat ( fferings, and sacrifice continually.


And the word of the Lord came unto Jeremiah, saying, Thus saith the Lord; If ye can break my covenant of the day, and my covenant of the night, and that there should not be day and night in their season ; then may also my covenant be broken with David my servant, that he should not have a son to reign upon his throne ; and with the Levites the priests; my ministers. As the host of heaven cannot be numbered, neither the sand of the sea measured; so will I multiply the seed of David, my servant, and the Levites,
that minister unto me. Finister unto me. a king, and without a prince, aud without a sacrifice, and without an image, and without an ephod, and without teraphim. Afterward shall the children of Israel return, and seek the Lord their God, and David their king ; and shall fear the Lord and his goodness in the latter days.

Therefore, behold the days come, saith the Lord, that they shall no more say. The Lord liveth, whi ch brought up the children of Israel out of the land of Egypt ; but the Lord liveth which brought up and which led the seed of the house of Israel out of the north country, and from all countries whither I had driven them ; and they shall dwell in their own land.

Woe be unto the pastors that destroy and scatter the sheep of my pastures, saith the Lord. Therefore thus saith the Lord God of Israel against the pastors that destroy my people: ye have scattered my flock and driven them away, and have not visiled them : behold I will visit upon you the evil of your doings. saith the Lord.

And I will gather the remnant of my flock out of all countries whither I have driven them, and will bring them again to their folds; and they shall be fruifful and increase. And, I vill set upshepherds over them which shall feed them : and they shall fear no more, nor be dismayed, neither shall they be lacking, saith the Lord.

For thus saith the Lord God; Behold I, even I, will both search my sheep, and seek them out. As a shepherd seeketh out his flock in the day that he is among his sheep that are scattered; so will I seek out my sheep, and will deliver, them out of all places where they have been scattered in the cloudy and dark day. And I will bring them out from the people, and deliver them from the countries, and will bring them out from the people; and gather them from the coun-1 tries, and will bring them to their own land, and feed the $m$.




before the coming of the great and dreadful day of the Lord, And he shall turn the heart of the fathers toward the children, and the heart of the children to the fathers, lest I come and smite the earth with a curse.

The Messiah.-And there shall come forth a rod out of the stem of Jesse. and a Branch shall grow out of his roots; and the spirit of Yehovah shall rest upon him, the spirit of wisdom and understanding, the spirit of counsel and might, the spirit of knowledge and of the fear of the Lord; and shall make him of quick sagacity in the fear of $\mathrm{Y}_{\mathrm{c}}$ hovah, and he shall not judge after the sight of his eyes, neither reprove after the hearing of his ears ; but with right eousness shall he judge the poor, and reprove with equily for the meek of the earth; and he shall smite the earth with the rod of his mouth, and with the breath of his lips shall he slay the wicked. And righteousness shall be the girdle of his loins, and faithfulness the girdle of his reins.

The wolf also shall dwell with the lamb, and the leopard shall lie down with the kid; and the calf and the young lion and the fatling together; and a little child shall lead them. And the cow and the bear shall feed; their young ones shall lie down together ; and the lion shall eat straw like the ox. And the sucking child shall play on the hole of the asp, and the weaned child shall put his hand on the cockatrice' den. Thev shall not hurt nor destroy in all my holy mountain : for the earth shall be full of the knowledge of Yehovah as the waters cover the sea.
Behold, the days come, saith the Lord, that I will raise unto David a righteous Branch, and a King shall reign and prosper, and shall execute justice and judgment in the earth. In his days Judah shall be saved, and Israel shall dwell safely: and this is his name whereby he shall be called, THE LORD OUR RIGHTEOUSNESS, YEHOVAH-TSID. KENU.

Behold, a king shall reign in righteousness, and princes shall rule in judgment, and a man shall be as a hiding place from the wind; and a covert from the tempest; as rivers of water in a dry place, as the shadow of a great rock in a weary land. Then judgment shall dwell in the wilderness and righteousness remain in the fruitful field. And the work of righteousness shall be peace : and the affect of righteousness, quietness and assurance forever. And my people shall dwell in a peaceable habitation, and in sure dwellings, and in quiet resting-places.



which was upon the waters of the river, How long shall it be to the end of these wonders? And I heard the man clothed in linen, which was upon the waters of the river, when he held up his right hand, and his left hand unto heaven. and sware by him that liveth forever, that it shall be for a time, times, and a half; and when he shall have accomplished to scatter the power of the holy people, all these things shall be finished.

Gog and Magog.-And the word of Yehovah came unto me, saying, soin of man, set thy face against Gog, the land of Magog, the prince of Rosh, Meshech and Tubal, and say, Thus saith the Lord God, behold I am against thee, O Gog, prince of Rosh, Meshech, and Tubal ; and I will turn thee back, and put hooks into thy jaws, and I will bring thee forth, and all thine army, horses and horsemen, all of them clothed with all sorts of armour, a great company with bucklers and shields, all of them handling swords. Persia, Ethiopia, and Phut with them, Gomer with his bands, the house of Togarmah of the north quarters, and all his bands and many people.

Surely in that day there shall be a great shaking in the land of Israel, so that the fishes of the sea, and the fowls of heaven, and the beasts of the field, and all the men that are or the face of the earth, shall shake at my presence, and the mountain; shall fall down and the towers shall fall. And I will call for a sword against Gog throughout all my mountains, every man's sword shall be against his brother. And I will plead against him with pestilence and with blood ; and I will rain upon him, and upon his bands, and upon he many people who are with him, an overflowing rain, and great harl-stones, fire and brimstone. Thus will I magnify myself, and sanctify myself, and I will be known in the eyes of many nations, and they shall know that I am Yehovah.

And they that dwell in the cities of Israel shall go forth, and set on fire and burn the weapons, both the shields and the bucklers, the bows and the arrows, and the javelins and spears, and they shall make a fire of them seven years, Thus saith the Lord God, Speak unto the fowl of every wing, and to every beast of the field, Assemble yourselves, from every side, to my slaughter that I sacrifice for you, even a great sacrifice upon the mountaius of Israel, that ye may eat the flesh of the mighty and drink the blood of the princes of the earth, of rams, of bullocks, all of them fatlings of Bashan.


Behold I will send you Eiijah the prophet before the coming of that great and dreadful day of Yehovah.

And I will shake all nations, and the desire of all nations shall come: and I will fill this house with glory, saith the Lord of hosts.
Behold my servant whom I uphold; mine elect, in whom my soul delighteth; I have putmy spirit upon him: he shall bring forth judgment to the Gentiles. He shall not cry, nor lift up, nor cause his voice to be heard in the street. A bruised reed shall he not break, and the smoking flax shall he not quench; he shall bring forth judgment unto truth.
The spirit of the Lord God is upon me, because Yehovah hath anointed me to preach good tidings to the meek, he hath sent me to bind up the brokenhearted, to proclaim liberty to the captives and the opening of the prisons to them that are bound.

Then the eyes of the blind shall be opened, and the ears of the deaf shall be unstopped. Then shall the lame man leap as a hart, and the tongue of the dumb sing.
Many are the afflictions of the righteous: but the Lord delivereth him out of them; he keepeth all his bones, not one of them is broken. They pierced my hands and feet, they part my garments among them and cast lots upon my vesture,

For thou wilt not leave my soul in hell, neither wilt thou suffer thine holy one to see corruption. Thou wilt show me the path of life; in thy presence is fulness of joy; at thy right hand there are pleasures forever more.
Rejoice greatly, O daughter of Zion; shout, O daughter of Jerusalem; behold, thy king cometh unto the: he is just, , and having salvation; lowly, and riding upon an ass, and upon a colt the foal of an ass.
Seventy sevens are determined upon thy people, and upon the holy city, to finish the transgression, and to make and end of sin, and to make reconciliation for iniquity, and to bring in everlasting righteousness, and to seal up the vision and prophecy, and to anoint the Most Holy. Know therefore, and understand, that from the going forth of the commandment to restore and to build Jerusalem, unto the

Messiah the Prince, shall be seven sevens, and threescore and two sevens; the street shall be built again, and the wall even in troublous times. And after three score and two sevens shall Messiah be cut off, and nothing remains to him; and the people of the prince that shall come shall destroy the city and the sanctuary; and the end thereof shall be with a flood, and unto the end of the war desolations are determined. And he shall confirm the covenant with many for one week; and in the midst of the week he shall cause the sacrifice and the oblation to cease, and for the overspreading of abominations he shall make it desolate, even unto the consummation, and that determined shall be poured upon the desolate. Dan. 9 .
The following passages are the ones usually referred to Jesus: General ones declaring the coming of a Messiah, Gen. 3. 15; Deut. 18. 15; Ps. 89. 20; Is. 2. 2; 9. 6; - the nation, tribe, and family he was to descend from. Gen. 12.3; 49. 8; the time when he was to appear, Dan, 9. 24; Mal. 3. 1; the place of his birth, Mic. 5 . Was that a mespearsenger should go before him, Is. 40. 3; Mal. 3.1;4. 5; that he was to be born of a virgin, Is. 7. 14; that there should be a massacre at Bethlehem, Jer. 31. 15; that he should be carried into Egypt, Hos. 11. 1; that he should be hated and persecuted, Ps. 22. 6; 35. 7. 12; 109. 2; Is. 49. 7; 53. 3; that the Jews and Gentiles should conspire to destroy him, Ps. 2. 1; 2. 2. 12; 41. 5 ; Ghat he should ride triumphantly into Jerusalem, Ps. 8.,2; Zech. 9. 9: that he should be sold for thirtypieces of samiliar friends, 12; that he should be betrayed by one of his own familiar (rien.
Ps, 41. $9: 55.12$; that his disciples should forsake him, Zech. 13. Ps. 41. 9 ; 55. 12; that his disciples should forsake 53.7 ; that he 7; that he should not plead upon his 1rial, 1s. 53. should be scourged, Is. 50.6 ; that he should be crucified, Ps. 2 . 14,17 ; that they should offer him gall and vinegar to drink, Ps. ${ }_{22} 14,15 ; 69.21 ;$ that they should part his garments, and cast lots 22. 15; 69. 21; that they shou; that he should be mocked by his enemies, Ps. 22. 16; 109. 25; that his side should be pierced, Zech. 12 . 10; also his handsand his feet. Ps. 22. 16; Zech. 13. 6; that he should be patient under his sufferings. 1h. she should die with should be pation ne broken, Ps. 34. 20; that he should die wirh himefaetors, IS. 53. 9.12; that he shouid be buried with the richt 1s. 53.9: that he shooid rise again from the dcad, Pi. 16.10 : that the potter's

## THE CONTRAST.

The Contrast.-By the side of the magnificent descriptions of the New Heavens and New Earth, the universal kingdom of happiness and peace, we have now placed the tragical pictures of sorrow and failure which the Christian world has applied to Jesus of Nazareth, and his career eighteen hundred years since. We have to inquire whether the fulfilment of such a very small proportion of the prophecies was sufficient to establish his claim to the Messiahship at that time; and also to consider the question of a second coming.

The fulfilled passages number less than the one sixth part of the whole messianic prophecies. For every verse claimed as fulfilled, there are five verses which no one would have the hardihood to claim were in any manner fulfilled. But the case is much worse than the mere comparison of numbers would indicate. For not one of these claimed verses contains the promise of any thing good for mankind. A large part of them refer to such persecutions as have been the common lot of those who attempted to reform the institutions of men. They were not one whit more true of Jesus than they were of a hundred other men. No one can read history and remain blind to this fact.
And where the prophecies seemed to be definite and circumstantial, examination shows they were not so. To name a child Jesus, is not to fulfil a passage which says he shall be called Emanuel, for the two names are not equivalents, they do not mean the same thing at all. The Roman soldiers cast lots upon his vesture, but so they did upon other criminals which they executed. They gave him vinegar to drink. That also was their practice with others. If the passage ' Out of Egypt I called
sion was to offer the kingdom to that generation before their long dispersion, but that the Jewish mind could not then accept the terms and conditions which he proposed. The Jews could not see that a disconnected collection of moral precepts, and the healing of a few sick people, would deliver them from the hard yoke of Roman power, and from the multiform evils that cursed their social and political life.

And so, guided by fanatical bigotry and blind hate, they put him to the horrible death of crucifixion. He died because he was true to the spiritual light within him, a light which could not penetrate or dissipate the darkness of that age.

A little further on we shall consider the question of a Second Coming. We must here notice how Christians have turned aside the obvious meaning of the prophets. For they claim that the prophecies apply to the Church; that it is the true Israel.

How false this claim has always been, is seen from the direct words of Yehovah. For he says that in the day that the Messiah appears, in that very age, and not eighteer hundred years afterward, he will set forth his hand and gather the twelve tribes of Israel, the ten lost tribes as well as the tribes of Judah and Benjamin ; and plant them forever in the land in which their fathers have dwelt, upon the mountains of Israel, and that he will there establish them as at the first, and that they shall no more be two nations, and they shall not again be plucked up, but shall dwell in safety forever. If this language has not a literal meaning, then it would be impossible for God to find words in the whole compass of human language, by which a literal meaning could be ex-

nation, neither shall they learn war any more. But every Christian Nation, without exception, has engaged in repeated wars, and its priests have sanctioned these wars. Christian nations still fight with the skill of demons, and Christian sects still quarrel with malignant hate, in this year after Christ 18 s 1 . In the light of these facts, to call the Christian Church the kingdom of the Messiah, is to utter an atrocious falsehood.

Nor does the Christian religion, as explained by its teachers, contain the foundations upon which the Kingdom is to be laid. For it does not contain any provisions, or principles, or laws, which could be formulated into a system and applied in a literal kingdom as its constitution. All things must be made new. The confused Babel of Christian sects can not be patched up into the New Jerusalem.

It is as easy to distinguish between the figurative and the literal language of the prophets, as it is to distinguish these in the common speech of every day life. When the prophets speak of a great day of burning, against the wicked, they no more mean a fire like that of wood and coal, than when we now speak of "burning hate," "fiery passions," "getting into hot water." The figure of speech means that a force would be used sufficient to destroy the evil referred to.

The True Messiah.-The prophets have a great deal to say about the coming Kingdom, and but a very little to say about the King who was to be its great founder. And we have a right to think that this shows that the kingdom was much more important than the king. In contradiction to the prophets, the Christain world centered all of its

The command to be perfect, even as your Father in heaven is perfect, was a poor substitute for a system of integral education, which should secure to every child the glory of a mind and body trained and developed in perfect symmetry.

To bless little children, and say "Of such is the kingdom of Heaven," seems like a dreadful mockery in a Christian civilization which allows one half of the children to die before the age of five years, from easily preventible causes of disease.

The spasm of conversion and the hope of escaping hell, was but a sad substitute for the spiritual unity of mankind and the conscious and perpetual communion with the angelic world. The scope of religion is immensely broader and deeper than the Christian definition and example.

No system of doctrines and of life was formulated by Jesus. Cut off while his mission was scarcely begun, the work was left to other hands. Christianity was molded into form by monastic teachers, who substituted impractical and false dogmas for the simple precepts of their professed master. These impostors put forth the dogmas expressed in the phrases 'Saved by the blood of Christ," "Justified by Faith," "By the deeds of the law no flesh shall be justified," "Vicarious Atonement,"'"Christ our substitute," "Imputed Righteousness,", "Mystery of Godliness." Not one of these formed any part of the teachings of Jesus. Not one of them belonged to the character of that Messiah who was foretold by the prophets. There is not a single passage in the old Testament which says that the Messiah should be offered as a sacrifice for the sins of men, and that through this substitution they were to gain admittance to heaven. According

do that which is lawful and right, he shall surely live, he shall not die. he hath committed, they sall transgressions that unto him : in his righteousnes not be mentioned he shall live."

And David says "The Law of Yehovah is perfect, giving peace to the soul, the commandment of Yehovah is clear, enlightening the eyes. They are sweeter than honey, and in keeping them there is great reward.

The Christians have coolly rejected the teachings of Yehovah and of Jesus, and put in their place the opposite doctrines of the Epistles.

Justice demands that those who have sinned shall be punished. But says Dr. Hodge, an eminent theologian, "Unless the Redeemer was a sacrifice on whom our sins were laid, who bore the penalty we had incurred, it is no atonement. He suffered the penalty of the law in our stead." The punishment of all our guilt was absolutly and actually borne by Christ," says another equally distinguished Christian preacher. To this it must be answered that, The satisfaction by substitution is impossible. If the law had said that either we or a substitute should die, this might be, but it said no such thing. The law is before us, and we see with our own eyes that it contains no such clause. If I cut off my finger, than it will be my finger that will perish, it will not be the finger of my neighbor. It is true that indirectly my neighbor may suffer, just as other parts of my own body might suffer, from the loss of the finger.

It has been supposed that all the sacrifices were types of the Messiah. But the Old Testament does not either say or hint such a thing. From the very
nature of sacrifices it has been proved, in the ninth chapter of this Book, that the Messiah could not be a sacrifice.
We must judge of the character of the Messiah by the nature of the government which he was to estnblish. It involves the unfolding of new forms of knowledge as the basis of a new life. It has been falsely taught that Love was the one distinguishing element in his character, But Yehovah himself has declared differently. Through Isaiah he names four intellectual qualities of the Messiah. These are Wisdom, Sagacity, Counsel, and Knowledge. With these he mentions only one quality of Love or feeling, and this is the fear of Yehovah, with one of Will, the spirit of might or strength.
A perfect character must have as much wisdom as love, and as much of will as of either the others. The three are equal parts of the mind, bound together by inseparable laws of action and dependence.
The expectation of the Jews at the present time, (1880) is in harmony with the teachings of the prophets, and with the deductions of science. In the words of a leading Jewish Journal "The Messiah is to be, according to our belief, but a man of marvellous intelligence and power of influence and organization. There is no reason why the prophecies, in which the vast majority of us devoutly believe, may not be fulfilled in an apparently natural and consequent manner." The prophets do not predict the exertion of any miraculous power in connection with the establishment of the kingdom. If it required a miracle to introduce it, then a perpetual miracle would be required to sustain its activities. The truth is far from


## A SECOND COMING.

nations look forward as fading flowers thirst for rain. His all penetrating spirit, his prudence, virtues and counsel, shall govern the world without the prestige of power. The nations seeing him will prostrate themselves before him; and hearing him they shall be convinced, and with one voice praise his works. China shall see the rays of his glory approaching, which shall penetrate even to the savage nations, and to the unapproachable wilderness."

In the Persian Zend Avesta, we find Zarathustra saying, " In the last time a man shall appear who will adorn the world with religion and righteousness, Kings shall obey him, and all his undertakings shall prosper. He shall give victory to true religion. In his time rest and peace shall prevail, all dissensions cease, and all grievances be done away.

The Bhuddists of India believe that the next coming will be an incarnation of Bhudda, the same person who founded their religion.

The Moslems expect that the Messiah, El Medi, will appear in 1882, the 1260th year of the Hegira. Then, or in 1885, the false prophet, El Dajal, will appear to oppose him, but will be overcome.

A Second Coming. - The Hebrew prophets say nothing whatever about a second coming of the Messiah, and the Christian expectations concerning it are based wholly upon the New Testament predictions.

While Christians accuse the ancient Jews of falsely understanding the prophecies of the first coming to be all literal and material, the Christians themselves do the same thing in regard to


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the New Testament predictions of a second coming. They have not seen that certain figures which are used must be spiritual and can not be material or physical.

Four times it is declared "He shall come in the clouds of heaven." One of these times it is said that it shall be in the same manner as the disciples saw him ascend from the Mount of Olives. But that was in the daytime and in plain sight of all Jerusalem, and if the clouds were of watery vapor, if the light was material light, then it must have been witnessed by thousands of Jews. Yet no one saw it except the disciples. And therefore they saw it spiritually just as they saw the transfiguration, and not physically; even as the prophet Daniel saw the same clouds in a vision. A cloud of light guided the Israelites at the time of the Exodus; but it seemed only darkness to the Egyptians, like an ordinary cloud. If he comes again in that way, then no one will see him unless their spiritual sight is opened. That the clouds are spiritual clouds, such as we have proved to exist, in the fourth chapter, is conclusively shown by the declaration that "He shall come like a thief in the night." This is also repeated four times, and must be just as true as the other. The peculiarity of a thief's coming is its secrecy, we do not know that he has come until afterwards. If Jesus should come conspicuously in shining rain-clouds, then it would not be like a thief. But if the clouds are composed of spiritual light, then only a few will see them when he comes, yet after the kingdom is established, all the nations will both see and realize its glory. That would be coming like a thief.

It is certain that we cannot know in what man-


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Beast. The Beast, himself we are told, believed in miracles and used them, his conqueror believed in science.

The Apocalypse declares that the second coming will be with a "new name." Therefore, He will not come with the name of Jesus or Christ.

The writer of this Book of Israel privately believes that the same person who appeared eighteen centuries since as Jesus of Nazareth was to reappear as the Messiah. That he was to be born and grow up, apparently in the same manner as other men, but that he himself would be distinctly conscious of having pre-existed. His claim to Messiahship would not and could not rest upon the question of his pre-existence, for that is not now capable of scientific demonstration in his case. There is no personal description of Jesus, and if there were, he did not then fulfill enough of the prophecies to establish his claim. In the present age that claim must rest upon the question of the surpassing clearness of his knowledge of the plan, the laws, and the methods of the kingdom ; his unity of feeling and purpose with its divine life ; and his entire and life-long consecration to the work of its establishment.

The Messiah will not be distinguished for his tact and skill in managing men. For all the arts of diplomacy, the ability to make others believe that which we do not believe ourselves, all these arts of political dexterity can have no part in a kingdom based upon and conducted by the purest truth. They are not to be used to maintain its life and stability, nor must they be used in ushering in its existence. But he will show all the attractiveness of noble and delicate personal man-

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ners, the outward index of that pure heart and clear intellect that must belong to a Sun of Righteousness.
His authority will be the truth itself, which is greater than any person. He will not seek to secure the worship and adulation of the world. His consciousness of personal supremacy will be entirely subordinate to the great work of building the institutions of the new life, and securing their perpetual observance.
The New Covenant.-The Bible gives a very careful description of the kingdom, and represents it by types which have mathematical exactness. And Yehovah tells us, through, Jeremiah, where the laws of the kingdom may be found, as we see in the following passages :
"Thus saith Yehovah, 'Behold I will bring back again the captivity of my people Israel and Judah and will cause them to return to the land of their fathers, and they shall possess it. And the city shall be rebuilt upon her own heap of ruins, and the palace shall be inhabited after its ancient manner. Behold I will bring the remnants of Israel from the north country, and I will gather them from the farthest ends of the earth. With weeping shall they come, and with supplications will I bring them in. I will lead them by brooks of water in a straight way, where on they shall not stumble, for I am become a father to Israel, and Ephraim is my first-born.

When that day comes, saith Yehovah, I will make with the house of Israel and with the house of Judah, a new Covenant. Not like the covenant that I made with their fathers in the day that I took hold of them by tneir hand to bring them

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out of the land of Egypt, which my covenant they have broken, afthough I was become their husband, saith Yehovah. That Mosaic covenant was written upon tables of stone, but this is the covenant that I will make with the house of Israel, I will place my law in their inward nature, and upon their hearts will I write it. And they shall not teach any more every man his neighbor, and every man his brother, saying, 'Know ye Yehovah,' for they all shall know me, from the least of them, even unto the greatest.' "

Here we have the express declaration of Yehovah himself that the laws of the Kingdom are to be discovered in the constitution of man. In the eighth chapter of this Book these laws are elaborately given. All other plans of government and society, ever yet proposed. were the inventions and devices of men. No man had ever before searched in the inner nature of man for the plan and laws of society. No one could therefore show a divine authority for the plan he proposed. Measured by this final and true test, all the past systems and professed attempts to fulfil the Messianic prophecies, are proved to have been vain delusions or impositions. And if any person claims he is the Messiah,, and yet cannot prove that the plan and laws of society which he proposes are a part of the very constitution of man, and therefore a transcript of the divine laws, and equally adapted to the people of all nations; if he can not prove this, then we may be certain that he is either self-deceived, or an impostor.

The laws and plan of the great kingdom must have the character of universality. They must be equally adapted to the European, the Chinamen,
the Hindoo, the Semite, and the African. If its laws and plans bear the mark of local prejudices and customs, if they are the outgrowth of particular phases of the feeling and thought of some one nation, then they cannot be the guide and standard for the common and universal conduct of the human race. The prophets assert with emphasis that the Kingdom will be universal and will take the place of all others. It must therefore possess the qualities of universal adaptation. It must equally satisfy the rigid scientific analysis of the Englishman, the subtile speculation of the German, the delicate precision of the Frenchman, the expanding enterprise of the American, and the warm imagination of the Asiatic mind.

The constitution of man, or the faculties of the human mind, are the same among all men. It is only in the degree to which these faculties are developed that men differ from each other in different nations and ages. The laws and plan of the kingdom, are a true statement of that constitution, and therefore will never need to be changed, they will permit of the continued development of man through all coming times.

The Mosaic Polity undertook to establish the unity and fatherhood of God, and the rule of his laws; the unity of national and domestic life; civil liberty and political equality ; an elective magistracy, with all officers responsible to their constituents ; universal education with an enlightened public opinion; the sacredness of the family relation; and the inviolability of private and public property, sustained by universal industry.

It was for human good, for their own welfare that Yehovah made the provisions of the law. He


Wisdom, Love and Will, just as the human mind is constituted. We may be certain that this trinity of powers exists, for man is in the divine image, and these form the mind of man.

The nature of the Divine Mind fits it for a system of government with parts and officers like those best adapted to the wants of human beings. We must reason here from analogy, for the names of the divine rulers who are directly under Yehovah are not revealed in the Bible. The four angels, Michael, Phanuel, Gabriel, and Raphael, were and will be, especially interested in the establishment of the Kingdom of Israel.

We may believe that the Messiah was to be the person who is the maseuline head of this Earth, of this division of the physical and moral universe. In this sense, he is a representative of Yehovah, with the duty of administering the divine government on the earth. We may be certain that be will never assume to be God himself; he will never claim or consent to receive divine honors. The spontaneous love and the intelligent obedience of the world will be given him, and his response will be in his unselfish devotion to all human interests.

Rites of the Law.-In the ninth chapter the restoration of the sacrifices has been described. The rite of circumcision was a sign of the Covenant made with Abraham. That covenant engaged that the posterity of Abraham should forever inherit and occupy the land of Palestine, and that in them all nations of the earth should be blessed. When the Restoration of Israel takes place, and the Kingdom is set up, then that rite will be no longer required or be practiced, any more than


Both America and England will take a direct part in the restoration of Israel. This is indicated by Isaiah : Ho! land spreading wide the shadow of thy wings ; (America) Go, as a swift messenger, to a people wonderful from the beginning hitherto, a nation expecting and hoping, and trampled under foot, whose lands the river have spoiled. And all the inhabitants of the world shall see the uplifting of the banner upon the mountains, and shall hear the sound of the trumpet. At that time shall be brought unto Yehovah a present of that pulled and torn people, to the place of the name of Yehovah of Hosts, the mount of Zion.
The children of Ishmael were also in twelve tribes. They also are children of promise and of the seed of Abraham, as well as their cousins, the Israelites. They have been equally taught to look for the Great Deliverer. Under the same political constitution they will be arranged in tribes and will occupy northern Africa from Moroceo to the Red sea along with Arabia. The visions of the prophet of Mecca will be fulfilled with a higher truth than he foresaw.
Ishmael represented the material line, and Isaak the spiritual line of inheritance. So far, in all history, the material and the spiritual have warred with each other. In the Messianic kingdom, the two are forever united in harmony. The children of Isaak shall dwell in peace with the children of Ishmael. The rule of discord sundered the Israelites into two nations in ancient times. One hand and one law will unite all the children of promise, and through them, the whole race of man.
With the new basis of unity, the Turkish people, the Persians, and the Armenians and Circassians,

## HISTORIC CYCLES.

tory are measured by certain numbers. These are the very numbers which enter into the structure of man and of the universe.

If we classify the events of history according to their different kinds, then we shall see that each kind is divisible by a certain number. For example, those events which relate to Renewal or new life, have eight as a prominent factor in their dates. Those which relate to the display of spiritual power, have seven as a factor. Six is a prominent factor in periods of secular or earthly power, like the Roman and Mohamedan. The 1260 in their dates resolves into the factors, $6 \times 65 \times \%$. From the end of Cyrus to the final Dispersion of the Jews is 666 years. The year of the Flood 1656, is $6 \times 6 \times 46$. The destruction of Jerusalem, 4194, is 6x699. The nines are numbers of Judgment. From Nabonassar to Romulus Augustulus, the last of Roman Emperors, is 1260 lunar years.

Forty is eight times five, the number of covenanted probation. It occurs twelve times in the history of ancient Israel.

The "Seventy Weeks" of Daniel is 490 years, counted by the year-day theory. This measures from Exodus to Samuel ; from Samuel to the Babylonian captivity by Nebuchadnezzar ; and from Nehemiah's Commission and its execution in rebuilding the Temple, 418 B. C., to its Destruction under the Roman Titus, is 490 years.

Thirteen is a a number of discord or division, and is a factor in periods of this kind, like the Ishmaelitic and Mohamedan. When the thirteen is a pivot, then it is a number of structural anity.

HISTORIC DATES.

In the first column are the dates from Adam. After the Frodus, the first column gives the years from the Exodus, and the secoud marked B. C., gives the years before the Common Era or the 27th year of Augustus. "C. R.," stands for Common Era.
B. C. B. 4124. ADAM PLACED IN FDES, AND BATS OF THE Tree of Life.
1066- Noah born, ninth descendant from Adam.
1656-Noachian Flood. Noah 600 years old. His three sons, Shem, Ham, and Japheth, people the earth.
$300-$ Abraham born, ninth descendant from Noah.
$2503 \& 2108$-Covenants made with Abraham, 490 years before Exodns.
3Vr3-Birth of Ishmael, son of Abraham and Hagar.
2108 - Birth of Isaac, son of Abraham and Sarah.
2150 -Death of Shem, father of the Semitic race, aged 60.
2150 - Birth of Reau and Jacob, sons of Isaac and Rebekah.
234-Babylon founded by Nimrod.
$224-J a c o b$ marries Leah and Rachel, his cousins.
ese-Birth of Judah, fourth son of Jaeob and Leah.
ess-Birth of Joseph, first son of Jacob and Rachel.
244-Birth of Moses, of the tribe of Levi.
pase-Jacob's family go into Bery pt.
2538-March 21st, Exodus of Israklites usder. Moses, prom
Baypr. This was 1506 before the Common Ers, and 3458 before
1se9. And 430 years after corenant with Abraham.
Years of Isranl.
45-Israelites led into Promised Land, by Joshua. Ersodes.
45 to 424 -Bra of Twelve Judges, ends with Sa mson.
444 -Samuel anoints Saul king, rules 40 years, 400 after Joehus
$455-$ David borm. Becomes king 454 : rules Ierael 40 years.
514 - Solomon king rules 40 years. Dedicates first Temple 304
554 -Rehoboarn rules Judah. Ten Tribes revolt under Jeroboam, forming the House of I rrael or Ephraim.
$683-$ Alesha takes the pluce of A levah.
zis-or Ti6 B. C. Bezinning of the Greek Olympiads. This was zon years after the founding of Athens.
Th - or $\operatorname{ise}$ B. C. Founding of Rome by Romulus.
254-or 74 Beginning of Babylonian Empire.
B. C. Bra of Nabonassar. Bnd of 1st Assarian Bmpire Feb. 95
sif-or 790 B. C. Hotse OF IsRaEL CAPIIVE, Shalmaneser king of Assyria carries away the Ten Tribes. 255 years after Division.
si:- 771 B. C. Total eclipse of the moon March 19 th , $41 / 2$ bours betore midnight at Babylon, (Sargon, or Shalmaneser, king.
sespreNs B. C. House of Judah captive in Babylon, 458 after Daviid, 3:8 after Division, and 134 after Ierael's captivity.
245 or 507 B. C. Temple destroyed by Nebuchadnexaar.
sae cr 500 B. C. Jeremiah and Baruch escaping with king ZedeKiah's daughter, are supposed to reach Ireland.
824, or 713 R. C. Time of Isaiah's Prcpbecies.
s30, or cre B. C. Beginning of Daniei's prepbecs.
$5:$ B. C, 仅年iel viaion of Temple and Nem Jerusalem.
 year ef Cyrus the Great of Persia. Hy sends back $433 i$ of the tribes of Judah, Benjarnin and Levi.



Periods of Judgement have nine as a factor. The date 1881 contains twice 9 in the century, and 9 x 9 in the year, making it eminently the turning point as a year of Judgement. It reads the same backward or forward, it looks equally toward the past and the future. It is the 19th century of the common era, and 19 signifies Humanity come to judgement.

Time is a dynamic element, and therefore 5, 7, 9 and other odd or dynamic numbers are found more frequently than the even or structural numbers, in the dates in history.

Transition Periods. - Every event in history is the result of a growth, and that growth must occupy time. There must always be a period or phase of preparation, more or less extended. The critical point of change, from one to another, may be very clear ; but we can trace each phase back for years or centuries, into the preceding age. There may be several points with apparently almost equal claims to be concidered as the turning points of a phase of history.

Solar Cycles-The revolutions of the earth, the moon and the sun, have a direct and well marked effect not only on the physical growth and life of plants and animals, but also upon the social or historic life of men. The great events on the dial plate of history synchronize with these cosmical revolutions.

The day contains 24 hours, and is measured by one revolution of the earth on its axis.

The month extends between one new moon and another, the time of one revolution in its orbit, or 29 days, 12 hours, 44 minutes, and three seconds.

The year or apparent course of the sun around

velopment ; and consequently the prevailing factors in them are dynamic and earthly, and not spiritual and constructive.
Future Measures. - In future history, from the beginning of the Kingdom of Israel, the constructive, or factors of of organization, will rule. Then 1260 and 2300 will disappear as measures of eras, while 1040 , with its factors and aliquot parts, will become the standard of division in historic periods. 1040 is 7 times 144 plus 36 , or 3 times $1 \%$. It will be subdivided into 7 periods of 144 years each, a great Week of Years, with a period of 36 years in which to prepare for the next age. The factors of 1040 are $4 \times 26 \times 10$. It contains 4 the first number of organization, with 26 , the number of the Human and the Divine Attributes: of the great Name; and of the Rulers on the Thrones. Its last factor, 10 , is the number of material and spiritual law and power.

In the Kingdom of Israel, the year is divided into 12 month of 30 days each. This leaves five transdays at the end of each year. These transdays are used in making the annual change of office, employments, and studies. The year commences on the 21st of March, or the Vernal Equinox.

The day begins in the morning, measured from sunrise on the vernal equinox, and the 24 hours of the day are numbered consecutively from the morning hour of one day to that of the next. This avoids the awkwardness of being obliged to add A. M. or P. M. to each hour before we can know whether it is an hour of the day, or of the night. The hour itself is divided into twelve parts, (five minutes each, by Old Style) called horines, and each horine into twelve parts or minims(25 seconds)







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tioned. Each branch of study, whether theoretical or practical, tends by its influence on the mind to develop or stimulate the action of a special part of the faculties. The following analysis is intended to show these more special relations. For example, the Perceptive group of faculties is stimulated and developed by the study of form, space, color, number, and so forth.

Order of Study.-The cultivation of the groups should be taken up and carried forward in a methodical manner.

The order in which the studies succeed each other is given in the following table. Every group of faculties is stimulated and developed by a special kind of studies, and this truth is the basis of our classification of studies. These hours of culture are also shown in the initial engraving of this chapter.

The order in the table takes up, in succession, groups of faculties which are polar thirds. Every third, or every sixth day, this may be varied as shown on the Head.

By this plan of giving an hour to each group, we are certain that every faculty has been brought daily under systematic training. And no other plan can secure integral culture with certainty.

This plan gives four hours a day for intellectual, four for social, and four for industrial culture. The four groups of Expression govern the muscular systerm, and their culture belongs to physical education, although more or less labor is used as a means of teaching other groups.

A less elaborate plan for a school could be adopted as a preparation for the perfect form. It

## PLAN OF STUDIES IN THE SCHOOL. 269

NORMAL METHODS, SYSTEMATIC CULTURE, PHYSICAL TRAINING.


In the schools of all ranks, one nour is given, each day, to the direct culture of each group of mental faculties, through approdriate studies, as shown in this table. This order may be varied priate so take, in succession, the groups of Art, Letters, Science, Culture, Marriage, Religion, Familism, Rulership, Labor, Wealth, and Commerce.
Group of Home 5 to 7 o'clock. Art of Dressing-bathing, toilet and costume. Art of Eating-flavors, odors, and digestion. House and Field-house-care, messages, and field culture.
Art Group, 7 to 8 o'clock. Mathematics-geometry, arithmetic, and measuring. GrapHics-drawing, painting, and penmanship. ObJECT Lessons-geography, botany, and zoology.
Commerce Group, 8 to 90 'clock. Engineering-civil, mehanical and locomotive. Fertility-textile culture, fertilzers, and stock-raising. Commerce-distribution, travelling, and transportation.
Familism, 9 to 10 o'clock. Learning-obedience, guidance and study. Amusements-plays, festivals, and work. Servicewaiting, altruism, and patriotism.
Letterc. 10 to 11 o'olock. History-civilization, biography, and chronology. LANGUAGE-2rammar, speaking, and music-Publication-books, newspapers, and correspondence.
Wealth, 11 to 12 o'clock. Factories-order in work, tools and machinery, fictiles and textiles. Economics-expenses, ownership, and exchanges. Storige-providence, warehouses, harvesting.
Marriage, 12 to 1 o'clock. DUALISM-sex-structure, floration, and rites. Heredity-transmission, permanence, and variation. Luxuries-recreation, caressing, and pleasures.
Science, 1 to 2 o clock. Laws-Logic, mentology, and rules. BEAUTY-esthetics, symbolism, and adornment. SCIENCE-mechanics, cosmology, and dynamics.
Labor, 2 to 3 o'clock. Justice-rights, duties, and penalties. UTility-Labor groups, industrial plays, and trades. Environsclimate, forestry, and horticulture.
Culture, 3 to 4 o'clock. Hospitality-entertainment, conversation, and freindship. REFORM-discoveries, teaching, and adoption. Manners-mimetics, mora lity, and elocution.
Rulership, 4 to 5 o'clock. Leadership-authority, training, and ranks. ELECTIONS-voting, grouping, and transferring. DIS-plays-standards, exhibitions, and processions.
Religion, 5 to 6 o'c'ock. WORSHIP-ceremonies, spirituality and belfef. UniTY-philanthropy, interchanges, and discipline. Enterprises-reclamation, improvements, and undertakings.


## METHOD OF STUDY.

elementary principles, would include separate treatises on Geometry, Spacics, Arithmetic, Chemistry, Cosmology, Dynamics, Mentology, Physio$\operatorname{logy}$, Botany, Language, Esthetics, and HandArt. The Sepherva, abridged or complete, is used as the text-book on Mentology.

In childhood the lower faculties are dominantly active, and then successively higher ones come into prominent activity. But there are truths belonging to the higher faculties which are sosimple that a child may understand them without difficulty, and other truths which may make a vivid impression through their symbols and ceremonies. It is through these that the higher faculties of the child must be first cultivated.

For example, the symbols of religion may impress the mind of a child, at three years, and at seven he may form an idea of his relation to the human family from that which he bears to his brothers, sisters, and parents. He would learn the laws of sex at first from the study of flowers and fruits.

At the age of fifteen the character and tastes of the youth have been well studied by his teachers, he has learned the use of various tools in the work-shops and on the farm, and hence he is ready to choose his profession for life. Having made this choice of a profession, or trade, he takes up the special and elaborate studies which belong to it, and follows these until his graduation at twentyone. During this time he is under the direct practical instruction of the leaders in that group of the society to which his profession belongs.

From the fifth year onward, the life of the child is more or less productive to the society. Its in dustries are so organized that they are in every way




## ANALYSIS OF KNOWLEDGE. SCIENCE.

Mathematics
Geometry-Formology, Engineering, Topography.
Spacics-Trigonometry, Surveying, Mensuration. Arithmetic-Algebra, Book-keeping, Calcalus.
Biology.
Mentology-Psychology, Sociology, Economics.
Physiology-Anatomy, Vitology, Sanatology.
Botany-Morphology, P. Vitology, Floralogy.
Physics.
CosmoIogy-Geography, Geology, Astronomy.
Chemistry-Morphation, Cuisine. Analysis.
Dynamics-Mecharics, Statics, Vibratics.

## LETTERS.

Philosophy.
Logic-Formula, Induction, Deduction.
Analyies-Examination, Solution, Proving.
Synthesis-Classification, Arranging, Gathering.
Literature.
Bibliology-Authorship, Pantology, Editing.
History-Records, Statistics, Museums.
Music-Vocalics, Organics, Gesturics.
Culture.
Education-Teaching, Studying, Training.
Manners-Fashion, Habit, Custom.
Morals-Sincerity, Purity, Probity.

## ART.

Language.
Grammar-Etymology, Syntaxis, Orthography Elocution-Oration, Conversation, Gesture.
Printing-Publication, Typography, Binding-
Esthetics.
Graphics-Drawing, Painting, Writing.
Costumics-Fitting, Sewing, Upholstering.
Sculptics-Engraving, Sculpture, Carving.
Hand-Art.
Architecture-Machine, Carpentry, Ship-building.
Farth-Culture-Textile cult. Fieldwork, Forestry Manufactures-Instruments, Textiles, Wares.

have measurable forms and limits, and when these are reached, they tend to repeat themselves or return to equipoise. The smallest of these forms are the waves of the forces, and the largest are the paths of the cosmical bodies.
7. Law of Polarity. - All action is polar or displays the concert of opposite forces or tendencies, the attractive and repulsive, or positive and negative. Matter has bipolarity and tripolarity ; and spirit has bipolarity, tripolarity, and circu-polarity. The atoms af matter arrange themselves in groups and forms according to their separate and composite polarities.
8. Law of Conservation. - The seven great forces are Gravity, Heat, Polism, Chemia, Cohesion, Light, and Nerve-force. All forces are convertible, transferable, or counteractive, in measured proportions, a definite quantity of one always producing or else counteracting, a definite quantity of another. The entire quantity of motion in the Universe remains always the same.
9. Law of Causation. - Every object has power to effect every other object, and each Effect is the Cause of another effect. In mechanies there is always a mutual action between the two bodies.
10. Law of Radiation.- The Forces all radiate from their points of emission in minute waves, the vibrations being transverse to the wave-course. Light, heat, electricity, magnetism, and nerveforce, may be transmitted along special conductors.
11. Law of Divergence. - The manifestation of force on a given surface decreases as the square of the distance from the point of emission. A single force, coming in contact with an object, is divided into a number of forces, differing in direction.



the brain form a series of arches, whether we measure it from the front to the back or from side to side. And they support and balance each other, like the stones of an arch. For example, on comparing the map of the brain with that of the groups: we shall see that the groups of Science, Colture, Religion, Rulership, and Labor, form an arch. Religion is the key-stone. On its two sides, and equally supporting it, are Culture and Rulership. Farther down Science and Labor balance and support it. These principles were stated under the law of Polarity, bnt they are mechanical as well as vital laws.
In Free Masonry there was an instinctive sense that some truth existed here, but it was not guided by any real or exact knowledge, and their architectural symbolism was both crude and impractical.
The groups are represented by the flower, the sun, and the stones in the floor of the portal.
The great central court reaches from the first floor to the dome, from which it is lighted. It is surrounded by twenty-six columns. This is a place for social gatherings, as well as a passageway ; and from the gallery around each story the members of the home can look down on what is taking place on its floor.
The Councilon is used as a counsel-room and also as a parlor. Above it a similar room, the Mimeta, forms the general parlor. The Auditum on the first floor is devoted to physical, and on the second floor to theoretic, instruction. Above the Appeton, or dining-room, is the children's playroom, or Formaton.
At the four corners of the great ellipse are the



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private rooms for officers and members. These rooms are arranged in series of twelve with bedrooms attached. The four stories include two hundred and eighty eight of these private rooms. Temples may vary in size from 260 to 360 feet in length. Or they may be still larger.

The colors of all rooms, private and common, are in harmony with the relations of the colors to the faculties. Thus, the rooms occupied by members of the Ambitious groupate are tinted with delicate crimson and purple, and trimmed with complementary colors. The rooms of members in the Parental groupate are tinted amber ; and so of the rest. And thus the colors, the furnishings, and the arrangement of each room are in harmony with the character, tastes, and attractions with its occupant.

From the largest part to the minutest details, the temple illustrates the varied series of mental harmonies. In societies devoted wholly to instruction, where the temple is simply a school, its plan remains the same; for the school is a model of society itself, for which it is to prepare its members.

The plan of the Workshops is much the same as that of the temple. But the walls of the great rooms in these are usually straight instead of curved, and the corner rooms are less numerous.

The plan of the unitary Dwelling completly secures three great requisites. First, it gratifies the individual taste of each member. Second, it secures the utmost required privacy and seclusion to each member, along with the greatest facility in associating and working with those who are attractive and congenial. Third, it gives the greatest economy
of material in its construction, and the greatest convenience in carrying on the various departments of domestic labor.
Costume. Our costume should secure three things:

1. Protection from the elements, from variations of cold, heat, and moisture. This will depend chiefly upon the material and the texture of our clothing, things which can be easily arranged from the abundant resources of our civilization. It also depends partly upon the form of the dress.
2. Our dress should secure freedom of muscular movement. To do this, the dress should not be too tight; and when there are skirts, these should never reach below the knee. The costume of the two sexes certainly should not be any more different than their forms and characters.
3. The third requisite in costume is beauty of form and color. No dress can supersede the divine beauty of the human form by greater beauties cf its own. The general form of the body and the limbs should not be concealed, nor should any long, straight, unyielding lines occur. Long skirts reaching to the ankles or the ground, obviously violate this law of beauty.
In proportion as dress follows or echoes the natural lines of division of the human body, will it be beautiful and useful. These lines are shown in the map and plan of the body, and the engraved "measure of man."
Dress is a social expression of character, it affects those with whom we associate. Hence there should be some unity of its forms. Slight variations of the dress, in different persons, would correspond to their different characters.
Colors of Costume. - In nature, Light is a far
more important and influential element than Bounds and when the harmonies of oolor are fully estahe lished in all the different departmente of art, we have a right to expeet that the effecte will fat sur= pass the moblest symphomies of sound,

A person should wear in his sostume the colors which belong to his dominant organs f or he may Wear the polit complements of these colors in some one of the three degrees, A few examples will Illustrate these apphieations elearly, A person with large Coactive organs should wear searlet as the dominant solor in his dress, and this might be trimmed with it somplementary colors, green $^{2}$ salmon, or purples, A persom with large Fratermal organs would wear green, or its oom plementa, red amber or soarlet, Those with the lessoning or gans large would wear light haes those with Ambition large would wear orfmson or purples This law would not canse persons to wear oolors Whieh did not agree with theif oo mplexioner for differenee of complexion indicates difference of character, The blonde and the brunette differ as much in their mental tints as in the tinta of their faces,

The male and female of ench pair differ by wear= fog darker and lighter shades of the same oolor, The eentres wen hrown and white, the masenline and feminine eolors of unity,

The Banner, - The Bamner and other offieial symbola of the kingdom are given at the head of this ehapter.

The Braner has three upright bandeg green, orange, and soailet, representing the intellectual, soelal, and industrial departments of society, Its esntral sun indieates the twelve groupates. It is
the sun of Righteousnesa, for it shows the balance and righteous laws which rule these, and it truly symbolizes the perfeet man, Its twelve rays have the same arrangement as the corresponding parts of the dity,

The symbols of the officers and members are wom on their dresses. Their centers are circles in those worn by men, and ellipses in those worn by women. For the circle is masculine when compared with the ellipse,

Among the ancient Egyptian, Hindoo, and Be* mitio nations the Cross was used as a symbol of generation. It stands for the major and minor axes of the brain ellipse, and when erossed at the midde and formed of eurved lines, it is the fominine symbol of marriage and of society. When erossed nearer the upper end, it is the maseuline symbol of these.
Influenee of Colors, - Every color is a definite kind of fores.

The orange, yellow, and green rays of the sunbeam are the ehief ones employed in constructing the delicate tissues of life. Now these are the very colors whioh the Author's observations and experimenta have shown are radiated by the soelal groups of the brain-those of Affection, The Sensilive group radiates salmon; the Parental, amber ; the Sexal, orange; the Religious, yellow; and the Dreternal, green. All of these facultios are related to the organs of nutrition in the body, those which organize its materials and build up its tissues. In the brain, these faculties attract buman beinge together, and produce all the complicated organkations of soefety. The colors of the intellect-diferent shades of blue tinged with




The organs of sense, the skin, the ear, the eyes the nose, and the tongue - are each adapted to a certain range of vibrations. The waves of sound are too long to set the rods and cones of the eye in vibration, and thus produce the sense of sight; and the waves of the nerve-force are not adapted to vibrate those rods and cones, except in unusual states of excitement and exaltation of sensitiveness In this case, the rods are rendered more tense, and according to a well known law, they will then vibrate to the shorter waves of nerve-force. Then we see the nerve-force as light.
These explanations enable us to understand how one force can be converted into another. We have but to change the form and length of its vibrations, and the work of transformation is done.

We may perceive the vibrations of sound through the sense of touch, recognizing its pitch and its intensity. Yet in this case, as the Author's experiments have shown, the sensation is not precisely the same as it is when perceived through the ear. Probably no description of a sensation or an emotion could convey a perfect idea of it to a person who had never felt it in his own experience. Each mind must perceive them for itself. Yet the correspondences between the senses are so close, that the scale of harmonies for them all must be alike. The scale of musical accords and that for colors have already been worked out by science.

The senses are arranged in a series of octaves, and what appears as Sound to one of the senses, if transferred to the higher octaves would appear as Light or as mental Feelings.


## FOOD ANI) CIIARAC'TER.

Food may modify character; may mold, develope, or depress the different faculties by the effect of its odors and flavers. For illustration, we would feed a person in whom the social organs were deficient upon food in which the sweet odors and flavors predominate. When we wished to develop the intellect we would feed the person upon wheaten bread or other food having alkaline odors and flavors. The flesh of animals, when used as food, stimulates the base of the brain. It chiefly excites the Impulsive, Defensive, Sensitive and Perceptive groups. It is not adapted to develop a noble, refined, and intellectual character. Its use as an article of diet belongs legitimately to savage life and the lower phases of society.

Our food may affect us by calling the various faculties into exercise in cultivating and procuring its different varieties. The culture of grains and fruits tend to develop the social faculties and the intellect. When a people settle down to the pursuits of agriculture, it is at once an indication that the arts of peace are beginning to prevail over those of war. In savage life, hunting and fishing were common means for procuring food, and these required the exercise of perception, sensation, destruction, cunning, and mobility. In civilized life, the slaughter of animals for food called the same faculties into exercise. The structure of the teeth and other digestive organs in man proves that he is naturally adapted to live on grains and fruits when he arrives at man's full estate.

In a harmonized life, the cook must understand well the relations of food, and be as truly an artist as the musician or painter, In a far higher sense

guide the activities of the new life for humanity. The high promises of science confirm the voice of inspiration and both of these will justify the hand and inspire the hearts of those who work for the earthly redemption of man.

The immense transformation in the intellectual, the moral, ahd the physical life of man, will indeed make it appear like a new heavens and a new earth. In landscape art, the plan of the New Jerusalem will be taken as the model for all cities and towns. This plan is based upon the laws of form-beauty already explained in the first part of this volume. It combines in the highest degree the beauty of curved and straight lines with symmetry of its balancing parts. The streets are indicated by the dark lines. The great Temple in the center is occupied by the pivotal society or Band of Israel. Around this, on the four sides of the square, are grouped the twelve Bands, each having its buildings. There should be a natural limit to the size of a city, just as there is to the size of man. The city is a definite, organized structure, having a fixed relation of all its parts and activities. The capital city of the world need not contain more than 144,000 people as its fixed population.

The truths of science demonstrate that the long expected kingdom of righteousness must have a literal, material form, a definite and fixed constitution, and laws. The language of Bible prophecy on this point is clear and decisive. But its inner life is not less clearly marked. It is moved by the mightiest impulses of spiritual life, and these alone lift it into majestic power, and will maintain its triumphant course through the ages.


AEPHERVA.
The past achievements of science and art lead us to expect the most wonderful results in the future, from the modifications of the climate, the soil and the surface of the earth.
New chemical discoveries will unloek the icy zones of the earth, clothe them with verdure, and cool the hot breath of the tropics to the freshness of temperate climes.

With combined industry, the civil engineer will reelaim the deserts, and make them blossom as the rose. Vast industrial armies will be animated by a noble enthusiasm in making the earth a garden of beauty, the fit abode of a redeemed race.

Carried to its maturity, science here inspires the vital air of religion itself, an $r^{1}$ is moved by the same immortal impuises. Under their united light and power we shall mold all external conditions into enduring sources of pleasure, and make human life an eternal response to the spiritual symphony of the Universe




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