

SCIENCE
ABBAY



The MetaHub

A Comprehensive Architecture for Information Analysis

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I. Necessity (Law, Determinism, the Absolute)

II. Mathematical Laws

A. Arithmetic

1. Number (Quantity)

- a. Repeating (Constant)
- b. Periodic
- c. Irregular (Chaotic)

2. Function

- a. Addition
- b. Subtraction
- c. Multiplication
- d. Division

B. Algebra

1. The Graph (Four Dimensions)

- a. The One (Eternity, Infinity, Space)
- b. A Point (Number; the Unit; Arithmetic)
- c. A Line (Two Points; Algebra)
- d. A Curve (Two Lines)
- e. A Plane (Three Lines; Trigonometry and Geometry)
- f. A Solid Figure (Four Lines or Pyramid)
- g. Change (Time; Calculus)

h. Sensible (Experience, Demonstration; Science; Statistics)

i. Time-Space Continuum

j. Calendar and Clock

2. Function

a. Geometry

b. Trigonometry

c. Calculus

d. Statistics

III. Time-Space Continuum (The One, Relativity)

IV. Calendar and Clock

V. Compass and Maps

VI. Elements and Forces

A. Physics (Four Forces)

B. Dynamic Topography (Six Three-Dimensional Flows)

C. Quantum Physics

D. Atomic Physics (Elements)

E. Electronics

F. Mechanics

G. Chemistry

1. States of Matter

- a. Heat
- b. Gas
- c. Liquid
- d. Solid

2. Reactions

H. Astronomy

I. Climatology and Meteorology

J. Geology and Earth Resources

K. Biology

1. Biological Characteristics

- a. Life is organized
- b. Life metabolizes: all the chemical and energy transformations that occur in cells as they carry out life's processes
- c. Homeostasis: Internal order
- d. Living organisms respond to the environment: Behavior
- e. Living organisms grow and reproduce
- f. Living organisms modify: Evolution

2. Functions of Life

- a. Responsiveness – The ability to react to a change in the environment
- b. Adaptability – An organism can adjust to the environment
- c. Growth – Increase in body size

- d. Reproduction – cells: replace old cells, repair. Organism: formation of a new individual (Birth. Remanifestation, Reformation, Recreation)
- e. Movement – Organism ... Position and Location, Internal motion ... Parts
- f. Metabolism (Homeostasis – Ability of an organism to maintain a constant environment) – The sum of all the reactions going on the body.
- g. Assimilation – to build the cell parts using absorbed materials; Absorption – Transportation of molecules from external to internal; Digestion – Chemical and mechanical transformation of food into simple forms that may be absorbed and assimilated by the body. *
- h. Respiration – process of obtaining oxygen (O_2) and removal of carbon dioxide (CO_2)*
- i. Circulation – movement of substances within the body from one place to another*
- j. Excretion – the removal of wastes that are produced by metabolism (Digestion, etc. shared only by complex organisms)

3. Populations

- a. Global Ecology
- b. Global Society
- c. Local Ecology
- d. Local Society
- e. Nation
- f. State
- g. Local Territories
- h. Tribe or Township
- i. Business or Interest Group

j. Family

k. Individual

L. Levels of Complexity of Living Matter

1. Molecules

2. Cells

3. Tissues

a. Epithelial Tissue

Squamous (flat), Cuboidal (small cube shape), Columnar (tall or rectangular). Covers surfaces of organs, inside and out. Forms skin, covering of organs, inner lining of hollow organs. Makes up major tissue of glands. Arrangements:

Simple – one cell thick

Stratified – several cells thick

Transitional – several layers of cell (flat and closely packed)

b. Connective Tissue

i. Areolar Tissue

ii. Adipose Tissue

iii. Reticular Tissue

iv. Fibrous Connective Tissue

A. Tendons or Sinews

B. Ligaments

C. Bone

D. Dentine

c. Cartilage

i. Fibrous Cartilage

ii. Hyaline

iii. Elastic Cartilage

d. Bone Tissue

e. Muscle Tissue

i. Skeletal – Voluntary Muscles – Striated

ii. Smooth Muscle Tissue – Hollow Organs

iii. Cardiac Muscle Tissue - Heart

f. Nervous Tissue proper initiates, controls and coordinates

i. Nervous Tissue Proper Initiates, Controls and Coordinates

ii. Neurons the Body's Adaptation to its Surroundings

- iii. Neuroglia – connective and supportive tissue of central nervous system

g. Liquid Tissue

- i. Blood – bone marrow is hematopoietic (blood forming) tissue
- ii. Lymph (Lymphoid Tissue) – important in production of antibodies

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4. Organs

5. Organ Systems

- a. Integumentary System: Protection; Temperature Regulation
- b. Skeletal System: Support; Protection of Soft Tissues, Mineral Storage; Blood Formation
- c. Muscular System: Support; Locomotion; Heat Production
- d. Nervous System: Direction of Stimulus Response, Usually by the Coordination of the other Organ Systems
- e. Endocrine System: Direction of Long-Term Changes in the Activities of the Other Organ Systems
- f. Cardiovascular System: Internal Transport
- g. Lymphatic System: Defense Against Infection and Disease
- h. Respiratory System: Delivery of Air to the Bloodstream
- i. Digestive System: Processing of Food; Absorption of Nutrients, Minerals, Vitamins and Water
- j. Urinary System: Elimination of Excess Water, Salt and Waste Products
- k. Reproductive System: Generation

6. Organisms

M. Sociology

N. Anthropology/History

O. Economics and Finance

P. Political Science/Geography

Q. Laws

R. Logic/Rhetoric

S. Human Perception

1. Temperature (Hot – Cold)
2. Mechanical Balance (Vestibular Mechanism)
3. Mechanical Position (Kinesthetic Mechanism); See ‘Celestial Sphere, Terrestrial and Anatomical Planes of Movement.
4. Pain
 - a. Causes (See List of Disorders)
 - i. Mechanical Tissue Damage
 - ii. Extreme Temperature
 - iii. Dissolved Chemicals
 - iv. Psychological
 - b. Location
 - i. Nerve
 - ii. Muscle
 - iii. Vascular
 - iv. Bone
 - v. Referred
 - c. Feeling
 - i. Fast Pain or ‘Prickling Pain’
 - ii. Slow Pain or ‘Burning and Aching Pain’
 - iii. Referred Pain
5. Tactile Sensations (Touch)
 - a. Causes (See Lists of Surfaces, Bodies and Forces)
 - i. Chemical Reactions
 - A. Meteorological and Geological
 - B. Biological (Organic)
 - C. Artificial
 - ii. Mechanical Forces and Bodies
 - A. Meteorological and Geological
 - B. Biological (Organic)
 - C. Artificial

- b. Kind
 - i. Fine Touch
 - A. Location
 - B. Size
 - C. Shape
 - D. Texture
 - ii. Deep Pressure
 - A. Location
 - B. Size
 - C. Shape
 - iii. Pressure and Vibration
 - A. Location
 - B. Motion

6. Auditory (Sound)

- a. Causes (Lists of Sounds, Languages, Music)
 - i. Chemical Reactions
 - A. Meteorological and Geological
 - B. Biological (Organic)
 - ii. Mechanical Work
- b. Meteorological and Geological
- c. Biological (Organic)
 - i. Accidental
 - ii. Instrumental
- A. Sounds
- B. Signals
- C. Music
- d. Parts
 - i. Volume (dB: decibels)
 - ii. Pitch (Hz = low-high frequency; notes: long-short wavelength)
 - iii. Speed (meters per second)

7. Visual (Sight)

- a. Causes (Light and Color Spectrum)
 - i. Chemical Reactions
 - A. Astronomical
 - B. Meteorological and Geological
 - C. Biological (Organic)
 - D. Artificial
 - ii. Mechanical Work
 - A. Astronomical
 - B. Meteorological and Geological
 - C. Biological (Organic)
 - D. Artificial

- b. Parts
 - i. Colors
 - ii. Shading and Light
 - iii. Form and Dimension

8. Olfactory (Scent)

- a. Cause: Chemicals (Molecules)
- b. 50 Primary Smells (See List)

9. Gustatory (Taste)

- a. Cause: Chemicals (Molecules)
- b. Kinds (List of Cuisine)
 - i. Sweet
 - ii. Salty
 - iii. Sour
 - iv. Bitter
 - v. Spicy

10. Emotion

- a. Delta (dreamless sleep)
- b. R.E.M. (dreaming sleep)
- c. Alpha
- d. Beta
- e. Theta
- f. Pleasure
 - i. Calm
 - ii. Confidence
 - iii. Glory
 - iv. Laughter
 - v. Liberality
 - vi. Kindness
 - vii. Friendships
 - viii. Admiration
 - ix. Emulation

- x. Will
- xi. Inclination
- xii. Ambition
- xiii. Hope
- xiv. Passion of Love
- xv. Lust
- xvi. Greed
- xvii. Luxury (Sloth, Gluttony)
- xviii. Intemperance
- xix. Pride
- xx. Shamelessness
- xxi. Unkindness
- xxii. Derision
- xxiii. Curiosity
- xxiv. Deliberation

g. Sexual Arousal

h. Pain

- i. Enmity/Aversion
- ii. Fear
- iii. Cowardice
- iv. Pusillanimity
- v. Jealousy
- vi. Envy/Indignation
- vii. Grief
- viii. Despair
- ix. Weeping
- x. Self-Abasement
- xi. Repentance
- xii. Regret
- xiii. Disappointment
- xiv. Shame
- xv. Pity
- xvi. Disdain

i. Rage

- i. Anger
- ii. Revengefulness

11. Mind

a. Functions

- i. The Senses
- ii. Short-term Memory

- iii. Long-term Memory
- iv. Recall
- v. Right Brain (Synthesis)
- vi. Left Brain (Analysis)
- vii. Motor Skills
- viii. Speech
- b. Anatomy
 - i. Special Senses
 - ii. Nerves
 - iii. Brain
 - A. Brain Stem
 - B. Limbic System
 - C. Cortex

12. Non-sensory Factors in Perception

- a. Expectations
- b. Tension
- c. Anxiety
- d. Previous Experience
 - i. Conditioning (Rewards and Punishments)
 - ii. Learning
- e. Genetics (Innate Processes)

VII. Sensuals

A. Time-Space Continuum (Essence; energy; Time; change; motion; force; charge; heat)

B. Elements

- 1. Heat and Light
 - a. Stars (Suns, Planets, Moons)
 - b. Comets
 - c. Sun
 - d. Lightning (Electricity)
 - e. Fire
 - f. Body Heat and Artificial

2. Gases
 - a. Sky
 - b. Atmosphere
 - c. Smoke
 - d. Steam
 - e. Organic and Artificial
3. Liquids
 - a. Clouds, mist, dew
 - b. Rain
 - c. Oceans
 - d. Lakes, rivers, streams, etc.
 - e. Water
 - f. Oils
 - g. Metals, rock
 - h. Organic and Artificial
4. Solids
 - a. Earth and Continents, Islands
 - b. Rocks
 - c. Minerals
 - d. Sand, deserts
 - e. Soil, fields
 - f. Hills
 - g. Mountains
 - h. Canyons
 - i. Caverns
 - j. Organic and Artificial
5. Organic Matter (Vegetable, Animal)
 - a. Hyperbioshere
 - b. Biosphere
 - c. Ecosystems
 - d. Societies
 - e. Families
 - f. Individuals (Organisms)
 - g. Organ Systems
 - h. Organs
 - i. Tissues
 - j. Cells (and Organelles)

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6. Atoms and Molecules (Chemicals)
7. Positive and Negative Charges

VIII. History

A. History of the Universe

1. Solenoid Theory
2. Bifurcation Theory and Newton's Law I, II and III (Rest, Change)
3. Big Bounce Theory

B. History of the Milky Way Galaxy

C. History of our Solar System

D. History of the Earth

E. History of Life

F. History of Humankind

1. Evolution of Anatomy and Psychology
2. Earth Resources
3. Trade and Marketing
4. Technology
 - a. Tools
 - b. Vessels
 - c. Weaponry

- d. Architecture and Gardening
- e. Transportation
- f. Communication

5. City Planning

6. Art and Entertainment

- a. Visual
- b. Music
- c. Theatre, etc.

7. Socialization

- a. Family
- b. Government
- c. Business

8. Hygiene, Health and Medicine

9. Religion and Philosophy

10. Dress

11. Cuisine

12. Language

13. Outline of the History of Education

- a. Mesopotamia
 - i. Astronomy and Time-Keeping
 1. Circle: 360°, days in a year (Calendar)
 2. 12 Constellations, 'Houses', Months (Calendar)
 3. 7 Planets, Days in the Week (Calendar)
 4. 24 hours, 60 minutes, 60 seconds (Sundial and Clock)
 - ii. Mathematics

1. Sexagesimal; square root procedures
 2. Algebra, Quadratic and Cubic equations
 3. Geometry (applied arithmetic, polygonal areas)
 - iii. The Written Word
 - iv. Gods as Forces of Nature; Religion, Mythology and Legend, Ethics
 - v. Government: Law Code; Code of Hammurabi; King of Babylon
- b. Egypt
- i. Compass and Calendar
 - ii. Mathematics
 1. Architecture and Irrigation
 2. Counting for Ritual
 - iii. Medicine
 1. Hygiene
 2. Herbology
 3. Psychology
 4. Surgery
 - iv. Religious Mystery within Mythology:
 1. Medicine
 2. Ethics
 3. Politics
 - v. The Written Word: Hieroglyphics
- c. Israel
- i. Religion
 1. Written Tradition
 2. Monotheism
 3. Code of Ethics
 - ii. Government
 1. Code of Ethics
 2. Laws
 - iii. History
 - iv. Measurement
 - v. Creation of Christianity
- d. Greece
- i. Science
 1. Mathematics
 - a. Pythagoras
 - b. Mathematical Essays
 - c. Deductive Reasoning
 - d. Musical Laws
 - e. Astronomy
 - f. Euclidean Geometry
 2. Physics
 - a. Mathematics
 - b. Astronomy

- c. Atomic Philosophy
 - 3. Medicine: Hippocrates, Aristotle, Celcus
 - ii. Epic Poetry: Homer
 - iii. Practical Advice: Hesiod
 - iv. History: Herodotus, Thucydides
 - v. Philosophy
 - vi. Art and Music
 - vii. Poetry and Theatre
 - viii. Athletics (Olympics)
 - ix. Government and Law
 - x. Religious Mystery Within Mythology
 - 1. Medicine
 - 2. Ethics and Politics
 - xi. The Written Word: Alphabet
- e. Rome
 - i. Advanced the Greek Hellenistic Civilization
 - ii. Assignment of Titles to Government and Economic Groups and Offices
 - iii. Adoption of Christianity
 - iv. Law
- f. Celtic Tribes
 - i. Custom within Mythology
 - ii. Druidic Magical Religion
 - iii. Adoption of Christianity
 - iv. Advanced 'Classical' or Greco-Roman Civilization
 - v. Adoption of Anglo-Saxon and Scandinavian (Viking) Cultures
 - vi. Compass and Calendar
- g. Germanic (Anglo-Saxon, Scandinavian) Tribes
 - i. Custom within Mythology
 - ii. Norse Magical Religion
 - iii. Adoption of Christianity
 - iv. Advanced 'Classical' or Greco-Roman Civilization
 - v. Adoption of Celtic Culture
 - vi. Law
 - vii. Compass and Calendar with Holidays
- h. The West in General
 - i. The Development of Feudal Society
 - ii. The Advancement of the Christian Church
 - iii. The Advancement of 'Classical' or Greco-Roman Civilization and Renaissance of European Civilization

- iv. The Reformation of the Christian Church and Political Authority
 - v. The Advancement of Science
 - vi. The Development of Nation-States
 - vii. The Development of Absolute Monarchies
 - viii. The Enlightenment of European Philosophy
 - ix. The Political Revolutions of France and America
 - x. Napoleon
 - xi. Industrialism
 - xii. Nationalism
 - xiii. The World Wars
 - xiv. The Cold War
 - xv. The Advancements of Technology, Communication, and Information
- i. The East
 - i. Indian Philosophy and Religion
 - ii. Chinese Philosophy, etc.
 - iii. Japanese Philosophy and Religion
 - iv. Persian Religion

IX. The Necessities of Life

A. The Principles of Health and Pathology of Life in General

1. Health: The Proper Distribution and Flow of Energy in the Whole
 - a. Sacred Honor, Righteousness, Nobility, Virtue; the Hyperbiosphere, Biosphere
 - b. Justice; Community
 - c. Integrity; Trade
 - d. Piety; Family
 - e. Health or Homeostasis; Self
2. The Work
 - a. Awareness and Sense of Reality
 - i. Relaxation or Purification

- ii. Contraction or Integration
- A. Intention (“One-Pointedness”)
- B. Concentration (Attention)
 - 1. The Ideal
 - 2. The Potential
 - 3. Goals and Schedule
 - 4. Work
- b. Order
 - i. Category
 - ii. Connection or Relationship
 - iii. Balance of Opposing Functions and Rhythmic Behavior
- A. Natural Symmetries (See ‘Universal Model of the Golden Mean’.)
- B. Proportions
- C. Dynamics
 - 1. Perpetuating Energy
 - 2. Allowing, not forcing the flow of energy
 - 3. Direction and re-direction of energy through proper channels:
 - a. Temperature
 - b. Light
 - c. Hydration
 - d. Diet
 - e. Fresh Air and Breath
 - f. Humidity
 - g. Sleep and Walking Schedule
 - h. Rest and Movement or Work (Posture and Body Mechanics)
 - i. Sex
 - j. Healing
 - k. Learning

3. Disorders: acute and chronic

- a. Medical
 - i. Trauma
 - ii. Genetic
 - iii. Congenital
 - iv. Auto-Immune
 - v. Deficiency
 - vi. Infection
 - vii. Neoplasm
 - viii. Degenerative
- b. Moral
 - i. Cowardice – Courage
 - ii. Intemperance – Temperance
 - iii. Greed (Economics)
 - iv. Spendthrift (Economics)

- v. Pettiness – Magnificence
- vi. Dishonor or Low Self Esteem (Honor and Pride)
- vii. Vainglory or Pride (Honor and Pride)
- viii. Laziness – Right Ambition
- ix. Bad Temper – Good Temper
- x. Unfriendliness – Friendliness
- xi. Dishonesty – Honesty
- xii. Dull or Humorless – Read-witted, Tact, Humor
- xiii. Lust – Love or Chastity
- xiv. Gluttony – Diet
- xv. Shamelessness – Shame
- xvi. Passion from Pleasure or Pain – Rational/

c. Intellectual

- i. Science
- ii. Art
- iii. Practical Wisdom
- iv. Intuitive Reason
- v. Philosophical Wisdom
- vi. Deliberation
- vii. Understanding
- viii. Judgement

X. Family

A. Ancestors

B. The New Family

C. The Household

D. The Offspring

1. Kinship

- a. Evolutionary Tree
- b. Human History and Nationalities
- c. Family Tree
 - i. Whole Family Tree
 - ii. Recent Extra-household Relatives

iii. House-hold Relatives

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2. Household

- a. Nuclear Family
- b. Extended Family
- c. Non-relatives
- d. Handicapped or Elderly
- e. Disorder: Alcoholic or Substances Abuser
- f. Disorder: Abusive Spouse or Parent
- g. Disorder: Broken Home (Death or Absence)
- h. Roommates
- i. Marriage
- j. Children
- k. Separation and Divorce
- l. Remarriage
- m. Stepchildren and Combining Families

3. Provision of Necessities

- a. Health
- b. Finance
- c. Government

4. Wooing

- a. Arrangement
- b. Convenience
- c. Love
- d. Duty

5. Sex

- a. Celibacy
- b. Extra-marital Sex
- c. Unmarried
- d. Adultery
- e. Premarital Sex
- f. Married Sex
- g. Birth Control
- h. Conception and Pregnancy
- i. Timing, Places and Activities

6. Marriage

- a. Wedding
 - i. Civil Contract
 - ii. Ceremony

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- b. Children
- c. Separation and Divorce
- d. Child Custody
- e. Visitation
- f. Death and the Widow
- g. Widow Dating and Remarriage
- h. Single-Parent Dating and Remarriage
- i. Step-children

7. The New Child

- a. Extramarital Pregnancy
- b. Premarital Pregnancy
- c. Married Pregnancy
- d. Adoption
- e. Abortion
- f. Miscarriage
- g. Still-birth
- h. Child-birth
- i. Infant Death
- j. Twins, etc.
- k. Premature Baby

8. The New Parent

- a. The Married Couple
 - i. The Extended Family
 - ii. Single Parent

- iii. Adoptive Parents
- iv. Stepparents
- v. Working Parents
- vi. Substitute Parent (Nurse or Babysitter)

9. The Infant (Ages 0-2)

- a. Mother's Menstruation
- b. Conception
- c. Pregnancy and Labor (Mother's Health, etc.)
- d. Child-birth Methods
- e. Needs of the Parents
- f. Infant Firsts
 - i. His or Her Name
 - ii. Immunizations
 - iii. His Circumcision
- g. Management of Family and Career
 - i. Parents' Jobs
 - ii. Quality Time and Attention to Child
 - iii. Daycare or Other Caregivers
 - A. Home
 - B. Away
 - C. When to Return to Work
- h. The Homecoming
 - i. Visitors
 - ii. The Home
- i. The Nursery
 - i. Place to Sleep and Bedding
 - ii. Equipment (Feeding, etc.)
 - iii. Medicine Cabinet
 - iv. Diapers and Clothing, Shoes
 - v. Bathing
 - vi. Outings
- j. Medical Care
 - i. Primary Care Physician
 - ii. Visiting Nurse

- k. Schedule
 - i. Sleep and Waking
 - ii. Feeding
- l. Feeding
 - i. Nursing
 - A. Breast Feeding
 - B. Bottle and Formula
 - ii. Vitamins
 - A. Drinking Water
 - B. Changes in Diet and Feeding Schedule: Adding Solid Foods
- m. Baby's Health
 - i. Temperature
 - ii. Fresh Air
 - iii. Sunshine
 - iv. Learning Environment
- n. Play and Companionship
 - i. Toys
 - ii. Playtime
 - iii. Companions
 - iv. Activities
- o. Pacifiers, Thumbsucking, Comforters
- p. Development
 - i. Physical Development (Teething, etc.)
 - ii. Motor Skills
 - iii. Intelligence
 - iv. Sounds, Signals and Talking
 - v. Emotional Development
 - vi. Social Development (Outgoingness)

- q. Illness

10. The Young Child (Ages 2-5)

- a. Home Safety and Supervision
- b. Diet and Feeding
- c. Toileting, Bladder and Bowel Control
- d. Bedtime and Napping
- e. Masturbation
- f. Sex Education
- g. Duties
 - i. Dressing
 - ii. Clean-up
 - iii. Manners
- h. Discipline
 - i. Whining
 - ii. Anger
 - iii. Temper Tantrums
- i. Emotional Development
 - i. Curiosity
 - ii. Imagination
 - iii. Fear
 - iv. Independence from Parents
 - v. Aggression and Violence (In play, T.V., etc.)
 - vi. Naughty Words

- j. Day Care or Preschool

11. The Child (Ages 6-11)

- a. Self-control
- b. Manners
- c. Stealing
- d. Lying
- e. Obscenity (In T.V., Literature, Language, etc.)
- f. Allowance
- g. Reading Material
- h. Television, Movies, Comics, etc.
- i. Social Life and Popularity
- j. Clubs
- k. Organized Activities
- l. School
 - i. **School-Work and Homework**
 - ii. **Parent-Teacher Association and Meetings**
- m. Safety Education
 - i. **Emergencies (Fire, Tornado, etc.)**
 - ii. **Suspicious Strangers**

12. The Adolescent (Ages 12-18)

- a. Primary Care Doctor, Dentist, Health Insurance
- b. Diet, Exercise
- c. Illness and First Aid
- d. Developmental Changes
 - i. **Puberty**
- A. Physical

1. Girls' Period
 2. Maturity
 3. Acne
 - B. Emotional
 1. Self-consciousness
 2. Identity
 - ii. Growth Toward Independence
 - A. Rivalry with Parents
 - B. Withdrawal, Radicalism and Eccentricity
 - C. Tattoos and Piercings
 - D. Rebellion
 - iii. Junior high Vulnerability and Self-Doubt
 - iv. 9th Grade
 - A. Self-esteem Begins to Stabilize
 - B. Moodiness, Sulking, Privacy, Short-temper
 - C. Disorder: Depression and Threats of Suicide or Running Away, Eating Disorders
 - v. Sexuality and Romance
- e. Parental Guidance
 - i. Talking about Values, Goals, Activities
 - ii. Talking about Sex, Unprotected Sex; Pregnancy and STDs
 - iii. Everyday Applications of Education: Interior Design, Garden Plotting, Comparative Shopping, Carpentry, etc.
 - iv. Entertainment: Shopping, Ballet, Theatre, Sailing, etc.
 - v. Supervised Parties
 - vi. Freedom to Go Out (Dating, etc.)
- f. Education
 - i. Public or Private School
 - ii. Summer School or Programs, Camps, Tours, Trips (Sports, Computers, Foreign Relations, etc.)
 - iii. School Extra-curricular Activities
 - iv. Team Sports
 - v. Reading Material
 - vi. Community Resources: Museums Historic Sites, Nature Reserves, Political Rallies, Tours, Libraries, etc.
 - vii. Homework and Regular Study Time at the Desk
 - viii. Grades
 - ix. I.Q., Achievement and Aptitude Tests; SAT's and ACT's
 - x. Community Work or Volunteerism for an Organization or Cause; or Job Training
- g. Teen Budgeting, Savings, Purchases
 - i. Allowance
 - ii. Teen Job, or Summer Job

h. Social Life

- i. Crowds: Leaders (Preppies), Athletes (Jocks), Intellectuals (Brains), Individualists (Floaters), Partiers (Socies), Delinquents (Freaks, Druggies), Individuals (Dorks).
 - ii. Cliques
 - iii. Gangs
 - iv. Bullies
 - v. Parties, Concerts, Movies, Dining
 - vi. Disorder: Cutting School
 - vii. Disorder: Promiscuity
 - viii. Styles of Clothes and Hairdos
 - ix. After-School Supervision or Latch-Key Kid
 - x. Dating and Sex
- A. Acceptance can Heighten Self-esteem, Rejection can Lower Self-esteem
 - B. Dating and Platonic Relationships
 - C. Going Steady
 - D. Falling in LoveCheating
 - E. Breaking Up
 - F. Mistreatment
 - G. Parent Disapproval of Boy-or-Girlfriend
 - H. The Older Date
 - I. Homosexual Orientation
 - J. Rape
 - K. Virginity and Loss of Virginity
 - L. Contraception
 - M. Teen Pregnancy
- i. Drugs and Alcohol
- i. Experimenting (Use)
 - ii. Abuse
 - iii. AA and Na
 - iv. Driving
 - v. License
 - vi. Owning a car
 - vii. Parent Trip or Vacation – Leaving Teen at Home Alone

13. Transition Out of Adolescence (Ages 18-21)

- a. Living at Home or Away (Apartment or Dorm)
- i. Roommates
 - ii. Parents' Financial Support
 - iii. Job
 - iv. Financial Aid

- b. College
- c. Fraternity or Sorority
- d. Age 21: Alcohol and the Bars

14. The Young Adult (22-25)

- a. Moving Back Home
- b. Beginning First Career

15. Family Cohesiveness

- a. Unconditional Love and Trust
- b. Parental Authority
 - a. Fairness
 - i. Ideals, Values, Aspirations, Long-Term Goals of Parents
 - ii. Parent Ambition for Child
 - iii. Parent Support of and Compromise with Child's Ambitions
 - b. Family Rules
 - i. Personal Habits
 - ii. Household Chores
 - iii. Telephone, T.V., Car, Money, etc.
 - c. Orders and Advice
 - d. Consistency of Values, Reward and Punishment
 - i. Firmness
 - a. Discipline: Strict or Casual
 - b. Physical Punishment
- c. Spouse, Parent-Child and Other Relationships
 - a. Acceptance of Personality
 - i. Support
 - ii. Stereotypes Vs. Reality
 - iii. Communication (Verbal, Non-Verbal, especially Touch), Active Listening
 - iv. Cooperation
 - v. Spending Time Together in Routines or Rituals: "Good Morning," Meals, Play, Chores, Reading, Exercise, Holidays, etc.
 - vi. Resolving Conflict: Win, Lose, Avoid, or Compromise.
 - vii. Allowing Privacy
 - viii. Balancing Career and Family
 - ix. Gender Roles in Parents and Children
 - x. Friends
 - xi. A New baby
 - b. Parents' Attention

- c. Older Siblings Helpfulness
- d. Jealousy and Rivalry
 - i. Disorder: Put-downs Cause Defensiveness and Resistance
 - ii. Disorder: Blame or Shame Vs. Saying How You Feel
 - iii. Disorder: Spouse or Child Abuse (Verbal, Physical, Sexual)
 - iv. Disorder: Abandonment; Parents' Loss of Contact with Child)
 - v. Disorder: Missing Children
 - vi. Child and Family Guidance (Professional)

XI. Trade

A. Historic Principles

1. Acquisition of Wealth (Within Society)

- a. Discover
- b. Invent
- c. Improve
- d. Author
- e. Inherit
- f. Invest
- g. Earn

2. Acquisition of Wealth (General)

- a. As above
- b. Personality
 - i. Ideals
 - ii. Virtues
 - A. Skills
 - 1. Theft
 - 2. Force
 - 3. Chance

3. Classes of Wealth

- a. Propertied Class
- b. Manufacturing Upper Middle Class
- c. Professional Upper Middle Class
- d. Middle Class Shopkeepers
- e. Lower Middle Class
- f. Working Class

4. Wealth and Law

- a. Real Estate
- b. Business
- c. Contracts
- d. Patents and Copyrights
- e. Government Administration

B. Business

1. Basic Occupations in the Year 2000

- a. Ancient duties
 - i. Sex: Prostitution, Wife, Lover
 - ii. Child-Rearing
 - iii. Food Gathering
 - iv. Hunting and Fishing
 - v. Clothes making; Tanning; Weaving
 - vi. Clothes washing
 - vii. Food Preparation
 - viii. Pottery
 - ix. Dwelling Building
 - x. Dwelling Up-Keep
 - xi. Government; Law-Making
 - xii. Warrior
 - xiii. Ceremony
 - xiv. Art and Music

xv. Medicine

b. Ancient Hierarchy

- i. Medicine-Man or Priest-King
- ii. Warrior-Priest
- iii. Warrior
- iv. Youth
- v. Woman
- vi. Pre-Industry duties

c. Pre-Industrial Duties

- i. Sex: Prostitute, Wife, Lover
- ii. Child-Rearing and Education
- iii. Farming
- iv. Hunting, Trapping, Fishing
- v. Weaving
- vi. Housekeeping: Servants, Wife
- vii. Pottery
- viii. Architecture and Construction
- ix. Government
- x. Trade
- xi. Land-lording
- xii. Military
- xiii. Entertainment and Art
- xiv. Religious Ceremony
- xv. Medicine
- xvi. Mechanics
- xvii. Smithery
- xviii. Mining
- xix. Slave

d. Pre-Industrial Hierarchy

- i. King or Emperor
- ii. Noble or Knight
- iii. Land-lord
- iv. Government (Council, Judge, Lawyer)
- v. Priest
- vi. Merchant/Manufacturer
- vii. Professional
- viii. Shopkeeper
- ix. Laborer

e. Industrial-Techno Duties/Hierarchy

- i. CEO
- ii. Board of Directors

- iii. Investor
- iv. Manager
- v. Laborer
- vi. Student
- vii. Handicapped, Senior, Welfare
- viii. Criminal

2. Kinds of Wealth

- a. Ancient Times
 - i. Food
 - ii. Tools (stone, bone, wood)
 - iii. Clothing
 - iv. Shelter
 - v. Family
- b. Civilization
 - i. Land
 - ii. Livestock and Grain
 - iii. Title and Position
 - iv. Copper, Bronze, Iron, Silver, Gold
 - v. Precious Stones
 - vi. Food
 - vii. Tools and Technology
 - viii. Clothing, etc.
 - ix. Architecture
- c. 11th – 15th Centuries
 - i. As Above (b.)
 - ii. Dairy Goods
 - iii. Textiles (Wool)
 - iv. Tin, lead, iron, coal
 - v. Banking
- d. 16th – 17th Centuries
 - i. As Above (b., c.)
 - ii. Silk
 - iii. Dyes
 - iv. Tobacco
 - v. Industry
 - A. Laborers Wages
 - B. Shop-keeping
 - C. Professional Wages
- e. 18th Century
 - i. As Above (b., c., d.)
 - ii. Shipping
 - iii. Lumber
- f. 19th Century
 - i. As Above (b., c., d., e.)
 - ii. Railroad

- iii. Steel
- iv. Oil
- g. 20th Century
 - i. As Above (b., c., d., e., f.)
 - ii. Airplanes and Automobiles
 - iii. Plastic
 - iv. Computers
 - v. Communications

3. The Healthy Financial Entity, Deviations, and Causes

- a. Health
 - i. Written Values
 - ii. Written Goals
 - iii. Written Schedule
 - iv. Written Financial Records
 - v. Sources of Income
 - vi. Expenditure Less Than Income
 - vii. Efficiency and Punctuality
 - viii. Productive Distribution of Income
 - ix. Internal Associations/Communication
 - x. Marketing to an Audience
- b. Disorder (Deviations)
 - i. Unknown or Confused Values
 - ii. Unknown or Un-prioritized Goals
 - iii. Disorganized Schedule
 - iv. Disorganized Budget
 - v. Inefficient Sources of Income
 - vi. Over expenditure or Bad Debt
 - vii. Unproductive Practices/Lifestyle and Tardiness
 - viii. Ineffectual Distribution of Income
 - ix. Internal Associations/Communication
 - x. Marketing to an Audience

XII. Government

A. The Principles of Communication and Pathology of Community (Third Testament Law)

1. Love and Positive Attitude
2. Judgement
 - a. Knowledge
 - b. Organization of Knowledge
 - c. Coordination of Mind
3. Sensing and Acting and Reacting
 - a. The Introduction
 - b. The Body
 - c. The Conclusion
4. Analogies Between the Proper Channels, Virtues and Vices, and Disorders in Health, Piety, Integrity, Justice and Sacred Honor
 - a. Necessities of Life: Proper Channels
 - i. Health, Piety, Integrity, Justice, Honor
 - ii. Temperature: Clothes, Shelter, Machines, Climate
 - iii. Light: Indoor Lighting, Windows, Outdoor Opportunities
 - iv. Hydration: Water Supply, Water Supply, Water Supply and Distribution
 - v. Diet: Food Resources, Food Supply and Distribution
 - vi. Air (Breath): Windows, Machines, Circulation, Outdoor Opportunities
 - vii. Humidity: Shelter, Scheduling Opportunities
 - viii. Sleep/Waking: Shelter, Scheduling Opportunities
 - ix. Rest: Schedule
 - x. Work (Exercise): House Chores, Job Description, Legal Responsibilities, Moral Responsibilities
 - xi. Sex: Marriage, None, Legal Sex
 - xii. Healing: Cohesiveness, Therapy, Ethics, Justice, Honor

- xiii. Learning: Communication Education, Training Education
- xiv. Recreation or Pleasure: Gatherings, Parties, Breaks,
Holiday and Vacation Opportunities, Arts, Festivals, etc.

b. Proper Channels; Systems

i. Protection

A. Self

- 1. Integumentary System
- 2. Skeletal System
- 3. Lymphatic System

B. Family

C. Trade

- 1. Insurance
- 2. Law and Lawyers

D. Community

- 1. Constitution and Laws
- 2. Government
- 3. Military Might

E. Globe

- 1. Mimicry and Camouflage
- 2. Evolution
- 3. Natural Selection
- 4. Morality and Ethics
- 5. Human Beings

ii. Government (Direction)

A. Self

- 1. Nervous System
- 2. Endocrine System

B. Family

C. Trade

- 1. Politics or Law
- 2. Administration
- 3. Trade Union

D. Community

- 1. Families
 - a. Religious Organizations
 - b. Businesses
 - c. Government
 - d. Arts and Entertainment

E. Globe

- 1. Nature
- 2. Human Beings

iii. Healing

A. Self

- 1. Lymphatic System
- 2. Nervous System

B. Family

C. Trade

- 1. New Resources
- 2. New Ideas for Productivity

D. Community

- 1. Religious Organizations
- 2. Medical Organizations
- 3. Government

E. Globe

1. Births
2. New Resources
3. Improvements in Human Society

iv. Learning

A. Self

1. Nervous System

B. Family

1. Family Time
2. Community

C. Trade

1. Public Education Institutions
2. College
3. Job Training or Education Program

D. Community

1. a. Public Education Institutions b. Colleges
2. c. Public Library
3. d. Religious Organizations
4. e. Arts and Entertainment

v. Technology

A. Self

1. Nervous System

B. Family

1. Working Together
2. Community

C. Trade

1. Department of Technological or Product Advancement
2. Acquired Intellectual Property

D. Community

1. Scientists or Inventors
2. Scientific Institutions
3. Trade Organizations

E. Globe: Human Beings

vi. Growth and Reproduction

A. Self

1. Skeletal System
2. Reproductive System

B. Family

1. Marriage
2. Offspring

C. Trade

1. Financing
2. Revenue
3. Mergers and Acquisitions

D. Community

1. Births Vs. Abortions and Deaths
2. Immigration Vs. Emigration

E. Globe

1. Precambrian Era (First Life on Earth)
2. Asexual Reproduction
3. Sexual Reproduction
4. Natural Selection
5. Evolution of Extinction

vii. Diet and Hydration

- A. Self
 - 1. Respiratory System
 - 2. Digestive System
 - 3. Urinary System
 - 4. Cardiovascular System
- B. Family
 - 1. Income and Shopping or Dining Out
 - 2. Gardening, Agriculture, Horticulture
- C. Trade
 - 1. Revenue
 - 2. Distribution of Funds
- D. Community
 - 1. Production
 - 2. Trade
 - 3. Revenue
 - 4. Government Expenses: Treasury
- E. Globe
 - 1. Sunlight
 - 2. Atmosphere
 - 3. Earth's Waters
 - 4. Earth's Minerals
 - 5. Food Pyramid and Food Chain