

Part 2: The Backdrop of Learning and Teaching Theories



Chapter 6: Theories of Learning

History of Learning

Learning in Animals

• Experiments are easier to control than with

children

Learning in Children

Experiments are easier to control than with adults



Learning Theorists

*Propounders

Single-minded



***Interpreters**

Reconciliatory





Hilgard & Bower's 2 Learning Theory Classifications

Behaviorist/ Connectionist Theories

- + Thorndike's Connectionism
- + Pavlov's Classical Conditioning
- + Guthrie's Contiguous Conditioning
- + Skinner's Operant Conditioning
- + Hull's Systematic Behavior Theory

Both

- + Freud's Psychodynamics
- + Functionalism
- + Mathematical Learning Theory
- + InformationProcessing Models

Cognitive/Gestal Theories

- + Tolman's Purposive Behaviorism
- + Gestalt Theory



McDonald's 6 Categories of Learning Theories

Taylor & Francis Group

Recapitulation (Hull) Connectionism (Thorndike) Pragmatism (Dewey) Gestalt/Field Theory (Ogden, Hartman, Lewin) Dynamic Psychology (Freud) Functionalism (Judd) Routledge

Gage's 3 Families of Learning Theories

- Conditioning
- *Modeling
- ***Cognitive**







2 Classification Learning Theories

Kingsley & Garry

Stimulus Response Theories

Field Theories

Taba

Behaviorist Theories

Organismic, Gestalt, & Field Theories



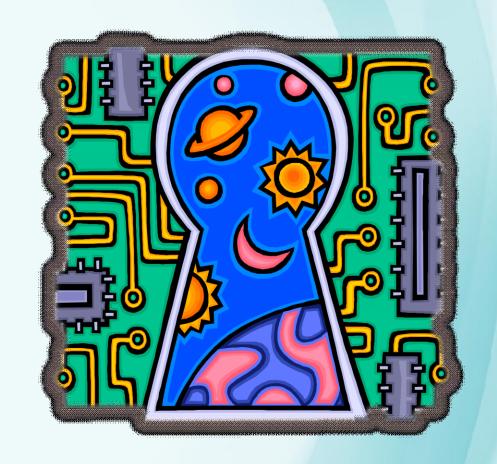
Elemental vs. Holistic Models

Elemental Model	Holistic Model
Represents the universe as a machine Composed of discrete pieces operating in a spatio-temporal field: reactive and adaptive model of man.	Represents the world as a unitary, interactive, developing organism: active and adaptive model of man.



Defined:

- Represents the universe as a machine composed of discrete pieces operating in a spatio-temporal field
- Reactive and adaptive model of man



Elemental Model World View



Theories of Elemental Model

Connectionism (Thorndike)

- Laws Governing Animals and Human Beings
 - The law of readiness
 - The law of exercise
 - The law of effect

Systematic Behavior Theory (Hull)

Mathematico-Deductive Theory



Theories of Elemental Model (cont.)

Principle of Contiguity of Cue & Response (Guthrie)

 "A combination of stimuli which has accompanied a movement will on its recurrence tend to be followed by that movement."

Classical Conditioning (Pavlov)

- Concepts
 - Reinforcement
 - Extinction
 - Generalization
 - Differentiation





Defined:

- Represents the world as a unitary, interactive, developing organism
- Active and adaptive model of man

Holistic Model World View



Theories of Holistic Models

Functionalism (Dewey)

- The functionalist is tolerant but critical.
- The functionalist prefers continuities over discontinuities or typologies.
- The functionalist is an experimentalist.
- The functionalist is biased toward associationism and environmentalism.

Purposive Behaviorism (Tolman)

 Organisms are capable of recognizing and learning the relationship between signs and desired goals



Theories of Holistic Models (cont.)

Field Theories

- Propose that the total pattern or field of forces, stimuli, or events determine learning (Emphasis on motivation)
- Gestalt Theories
 - Laws of Learner's Perceptual Field Organization
 - The law of proximity
 - The law of similarity and familiarity
 - The law of closure
 - The law of continuation
 - 2 Forces that Produce Learning
 - Change in the structure of the cognitive field itself
 - Change in the internal needs or motivation of the individual
- Theory of Instruction (Bruner)
 - 3 Processes of Learning
 - Acquisition of new information
 - Transformation
 - Evaluation



Reflection Questions

- 1. Speculate as to why many learning theories have been created.
- 2. What is the value of thinking of wholes and parts as they relate to learning?
- 3. What are some of the important points derived from elemental learning theories?
- 4. What are some of the important points derived from holistic model learning theories?

