

Human Memory

I. Memory Demonstration

A. *Variables affecting acquisition*

1. Order of presentation
2. Familiarity
3. Uniqueness

B. *Demonstrating Incidental learning*

II. Memory Model, e.g., Atkinson & Shiffren

A. *Input; stimulus*

B. *Sensory Memory*

C. *Short -term memory---control processes*

1. Rehearsal
2. Coding
3. Retrieval

D. *Response output*

E. *Long -term memory*

F. *Comparison of systems*

1. Duration
2. Capacity

G. *Clinical Evidence---Henry M.*

III. Examples of Memory Classification

A. *Episodic*

B. *Semantic*

IV. Improving your Memory

A. *Organization of Material*

B. *Mnemonics*

C. *Meaningful Material---use examples*

HISTORY AND SCIENTIFIC METHOD

I. ORIGINS

- A. *PHILOSOPHY*
- B. *PHYSICS*
- C. *PHYSIOLOGY*

II. EARLY SCHOOLS

- A. *Structuralism 1879 Wilhelm Wundt*
- B. *Functionalism early 1900's William James*
- C. *Behaviorism early 1900's James B. Watson*
- D. *Gestalt psychology early 1900's K. Koffka*
- E. *Psychodynamic Psychology early 1900's Sigmund Freud*

III. Emphasis on scientific approach

- A. *Science proceeds typically as*
 - 1. Testable Hypothesis
 - 2. Collect data
 - 3. Analyze and interpret and support or fail to support hypothesis
 - 4. Supported hypothesis leads to theory
 - 5. Tested and supported theory leads to law
 - 6. Psych. Has very few laws
- B. *Examples methods—Experiment and Correlation*
- C. *Experiment –examine causal relationships*
 - 1. Experimental Group & Control Group

2. Independent and Dependent Variables
3. Objectivity—use of operational definitions
4. Eliminating Confound Variables

a) Examples of Confound Variables

- (1) Subject's expectation—placebo
- (2) Experimenter bias

b) Double blind design

D. Correlation- determine if 2 or more events are systematical related—not necessarily a causal relationship

1. What does it tell us?—look for mathematical relationship
2. What do the numbers mean?

a) Range between +1 and -1

- (1) Absolute value reflects degree or strength of relationship
- (2) Sign reveals of relationship

E. Ethical issues -- institutional review boards

1. Nonhuman & Human Subjects
2. Benefits out way risks
3. Minimize discomfort
4. Human and debriefing.

IV. Variety of methods and tools with emphasis on a scientific approach