

Memory

Early Studies of Cognition
Psychology 390

Psychology of Learning

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Studying Memory

- You can examine memory at several different phases or stages.
 - Encoding Stage
 - · Storage Stage
 - · Retrieval Stage

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Encoding Stage

- Two Phases
- · Acquisition Phase
 - When you first encounter the item.
- · Memory Trace
 - The relevant experience leaves some record in the memory system.

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Storage Stage

 Memory traces are held in some enduring form for later use.

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Retrieval Stage

 One tries to recall a particular memory trace among all other memory traces that are being stored. Psyc 390 – Psychology of Learning

Retrieval Stage

All are aspects of the memory process

All three areas of the process are studied.

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How is Memory Studied?

• Ebbinghaus developed many methods

Serial Learning Task

• Look at a list of words for a few seconds, then try to recall the words in the order they were listed.

Psyc 390 - Psychology of Learning Example .Pencil .Wallet .Bookcase .Chair .Pen .Automobile .Hanger .Elephant .Plane .Suitcase .Hat .Bathroom .Paper .Towel .Briefcase 9

Ramp

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Paired Associate Task

• Here you present two items at once and later try to recall the item when given the other.

Psyc 390 - Psychology of Learning Paired Associate Task Book Light 1. 2. Chalk Ice Clip 3. Phone 4. Stapler Floor 5. Knob Plant 6. Couch7. Button Moon Carpet 8. Stove Crass Box Knife 10. Harbor Switch 11. Outlet Spring 12. Horn Sky Wall 13. Boat 14. Plane Paper 11 15. Concrete Board

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Problem

Words often have meaning.

Solution
Use nonsense syllables
CCC CVC

Psyc 390 – Psychology of Learning Memorize in Order .XLR .PJV .RFG .MZC .DGK .FTB .NQZ .XJG .WSL .KBN .SKD .PLD .TBC .LCH 13 .YKC

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Free Recall Task

• Try to recall items without hints.
• Is not the same as a serial learning task.
• Is difficult
• e.g.,
• Name the 50 states.
• Name every brain structure.
• Don't worry about the order.

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Recognition Task

• Recall information that you have seen before.

Multiple choice exam.

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