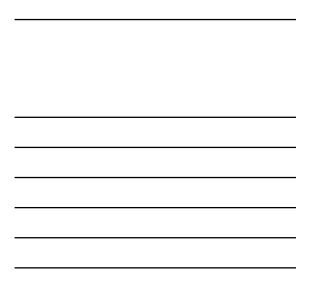
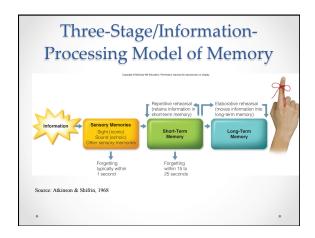


Foundations of Memory • Memory: Process by which we encode, store and retrieve information

D- D- D

Stages of remembering:
 Encoding
 Storage
 Retrieval







Types of Memory Stores

- Sensory Memory: Initial, momentary storage of information, lasting only an instant
- Short Term Memory (STM): Holds information for 15-25 seconds
- · Long Term Memory (LTM): Stores information on a relatively permanent basis, although it may be difficult to retrieve.

Sensory Memory Snapshot that stores information for a brief moment

- in time.
 - o Iconic memory: reflects information from the visual system (less than a second).
 - Echoic memory: stores auditory information coming from the ears (fades within 2 to 3 seconds).

Sensory Memory

- Snapshot that stores information for a brief moment in time.
 - <u>Iconic memory</u>: reflects information from the visual system (less than a second).
 - Echoic memory: stores auditory information coming from the ears (fades within 2 to 3 seconds).





Short-Term Memory

 Memory in which information first has meaning

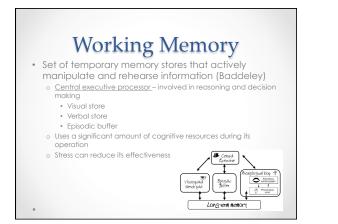
 <u>Chunking:</u> grouping of information that can be stored in STM

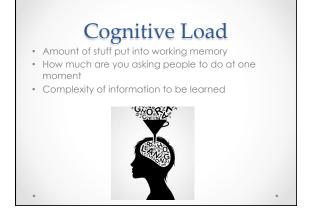
• Limited Capacity: Magic Number 7 +/- 2

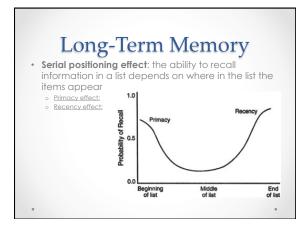
• PBSFOXCNNABCCBSMTVNBC

- PBS FOX CNN ABC CBS MTV NBC
- <u>Limited Duration</u>: information is lost after 15 to 25 seconds

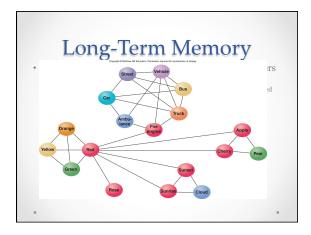




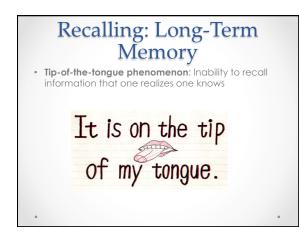


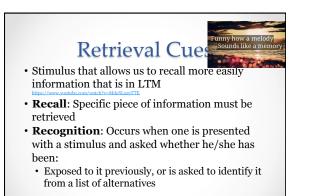


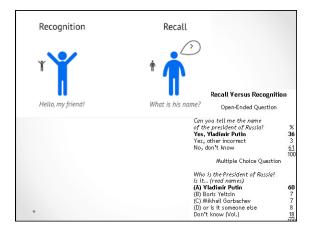




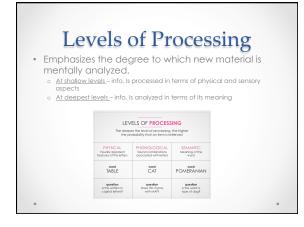






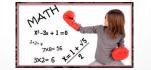






Explicit and Implicit Memory

- Explicit memory: Intentional or conscious recollection of information
- **Implicit memory**: Memories of which people are not consciously aware
 - $\circ~$ Can affect subsequent performance and behavior
 - **Priming**: Occurs when exposure to a word or concept later makes it easier to recall related information

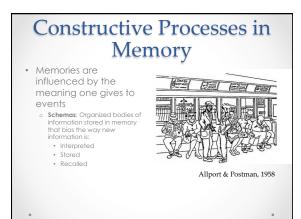


Flashbulb Memories



Memories related to a specific, important, or surprising event that are recalled easily and with vivid imagery

 Source amnesia – occurs when an individual has a memory for some material but:
 Cannot recall where he or she encountered it



Constructive Processes

Eyewitness

- Errors by eyewitnesses can result in mistaken identity
- Prone to memoryrelated error due to:

 Impact of the weapons used in crimes
 - Specific wording of questions

Children's Reliability

 Memory reliability of children is more acute as their memories are highly vulnerable to the influence of others.



Constructive Processes

- Autobiographical memory: recollection of our own life experiences
 - One tends to forget information about one's past that is incompatible with the way in which one currently see's oneself.

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 Highly Superior Autobiographical Memory (HSAM):
 Do psychological

 Do psychological abilities impact learning? Nature vs. Nurture?

https://www.youtube.com/watch?v=A0-mv26sz]k

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