

Memory is a constructive process through which we

Thinking and memory are flexible and capable of constant change...this can lead to errors.



Information processing model focuses on how information is cognitively organized

The Study of Memory

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 $\mathbin{\ensuremath{\bowtie}}$ How does information get into memory?

 \bowtie How is information pulled back out of memory?

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Encoding

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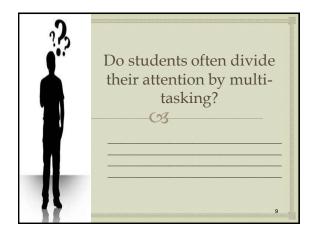
○ Encoding is the organizing

- This is the first step in the flow of memory

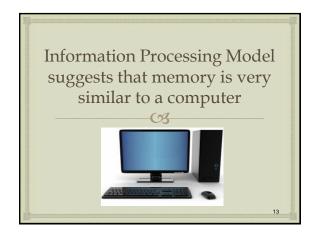
□ Learners must encode information to store it.

Remember Dual Processing? Some information gets into memory automatically, whereas encoding other information takes conscious effort. These include paying attention, processing deeply, elaborating, and using mental imagery.

Attention OB Divided attention involves concentrating on more Divided attention (multi-tasking) during encoding hurts performance on memory tasks, especially during retrieval



Another factor that influences memory is the degree to which we OB The term "levels of processing" refers to a continuum from shallow to intermediate to deep, with deeper processing producing better memory. It suggests that memory relies on how deeply we process information. OB By adding meaning, developing organizations and associations, or relating it to things we already know, it can be stored for a lifetime. Parallel Distributed Processing (PDP) 03 ™ The brain performs multiple, parallel operations all at once, allowing memory is



Limitations of the information processing model

○ Memories are described as literal, "hard" data stored on a computer disk or hard drive.

But human memories are often fuzzy and fragile.

Also, computers process one piece of data at a time, while human memory can process a lot of information at the same time

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STORAGE:

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Maintaining Information in Memory-Three-Stage Memory Model

Storage

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Storage involves maintaining the information available in memory

Whenever people have access to



It's a memory when...

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Rxample- if you look up a phone number, go to the telephone, and dial the number then memory is involved- even if for only seconds.



There are 3 Separate Memory Stores

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 \bowtie Sensory Memory performs the initial encoding of

Research The sensory memory recodes a complete memory of the image, but it fades too rapidly for people to "read"

Sensory Memory C3 Calconic Memory is a ______ Capacity: 4 ± 2 bits of info Echoic Memory is a momentary auditory memory _____ Capacity: about 6 bits of info

where .	
Allows you to co	mprehend what you are reading

Th	e working memory has
	many limitations
∞ Sho	rt-term memory is a limited-capacity store that
	vacity: The magic number" (George Miller)
- "	The magic number" (George Miller)



People can group information in ways to expand their short-term memory capacity.

Long Term Memory An unlimited capacity store that can hold information over length periods of time Capacity: Duration: Information can be stored in separate units and some information can be retrieved without retrieving others Tip of the tongue phenomenon (temporarily inaccessible)

How Do We Get Information Out of Memory? ————————————————————————————————————	
Retrieval	