Memory

Objective's for Today's Class:

Encoding memories
Storing memories
Retrieving memories

Memory is a

through which we actively organize and shape information.

Thinking and memory are flexible and capable of constant change...this _____

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model focuses on how information is cognitively _____:

- -Encoding
- -Storage
- -Retrieval

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How does information get into memory? How is information maintained in memory? How is information pulled back out of memory? Encoding Encoding Encoding is the organizing of sensory information so the brain can process it. This is the Learners must encode information to store it. What did you say?
How is information maintained in memory? How is information pulled back out of memory? Encoding Encoding is the organizing of sensory information so the brain can process it. This is the
How is information pulled back out of memory? Encoding Encoding is the organizing of sensory information so the brain can process it. This is the Learners must encode information to store it.
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What did you say?
during encoding hurts performance on memory tasks, especially during retrieval.
memory tasks, especially during retrieval.

Information Processing Model suggests that memory is very similar to a computer

Lim	iitation	s of the	e inform	ation
	proc	essing	model	

- Memories are described as literal, "hard" data stored on a computer disk or hard drive.
- But human _____
- Also, computers process one piece of data at a time, while human memory can _____

Parallel Distributed Processing (PDP)

The brain performs multiple, parallel operations all at once, allowing

(distributed) throughout a network of processing units



It suggests that memory relies on how

information.

By adding meaning, developing organizations and associations, or relating it to things we already know, it can be

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STORAGE:

Information in Memory

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Storage

Storage involves maintaining the information available in memory

Whenever people have _____

they no longer sense, memory is involved

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It's a memory when	
Example if you look up a phone number, go to the telephone, and dial the number then memory	
is involved- even if for only seconds.	
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	1
There are 3 Separate	
performs the initial encoding of sensory information for a brief time, usually only a	
information for a brief time, usually only a	
The sensory memory recodes a complete memory of the image, but it too rapidly for people to "read"	
too tapicity for people to Teau	
People have a special capacity for	
briefly retaining relatively large amounts of information	
aniounts of information	
This capacity is called the Sensory Memory	
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0 14	
Sensory Memory	
Preserves information in its original sensory form	
Iconic Memory is a visual icon of the original visual	
stimulus	
Capacity:	
<u>Echoic Memory</u> is the auditory sensory memory	
- Capacity:	
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ic rub and active thinking	
is where active thinking	
occurs.	
	-
-Designing new strategies	
Computing solutions to math problems	
17	
17	
The worlding manage has many	
The working memory has many	
limitations	
Short-term (working) memory is a limited-	
capacity store that can maintain unrehearsed	
information up to 30 seconds	
<u>Capacity:</u>	
(George	
Miller)	
Humans have the ability to retain	
, , <u>, , , , , , , , , , , , , , , , , </u>	
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People can group information in ways to	
W. Ivel. 14 . v	
called "Chunking."	
"Chunking" allows for easier encoding	
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How long can this information stay in	
STM? Memories disappear unless:	
They are really meaningful so they get stored quickly into long-term memory	
<u>■ Rehearsal</u> :	
The process of or thinking about information	
20	
Long Term Memory	
3	
<u>Capacity</u> : Unlimited	
<u>Duration</u> : Relatively permanent	
Information can be stored in separate units and some information can be retrieved without retrieving others	
retrieving others	
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consists of memories of general principles, facts, rules and ideas. Contains general knowledge that is ______ Example-Games or sports

Episodic Memory

Memories for specific autobiographical events

- Includes details of when and where the events happened
- Help us construct a sense of self

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Next class

How Do We Get Information
Out of Memory?

RETRIEVAL

Ch.7-Memory

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