

## Memory :

### Constructive Process:

Human memory is good at

- Information on which attention is focused
- Information in which we are interested
- Information that arouses us emotionally
- Information that fits with our previous experiences
- Information that we rehearse

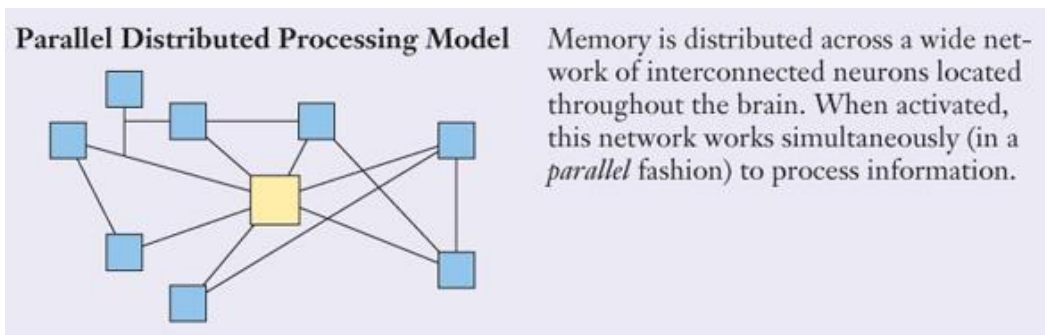
### Information Processing Model

#### Encoding:

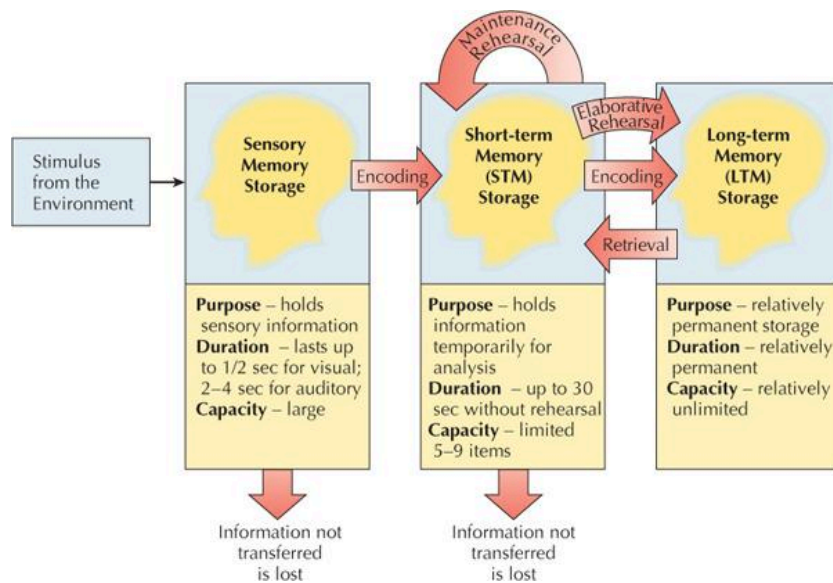
- Selective vs. Divided Attention
- Automatic vs. Controlled Processing
- Levels of Processing

#### Storage:

#### Retrieval:



## Three Stage Model



### Sensory memory:



Iconic (visual) and echoic (auditory) sensory memory

Short-term memory (STM)

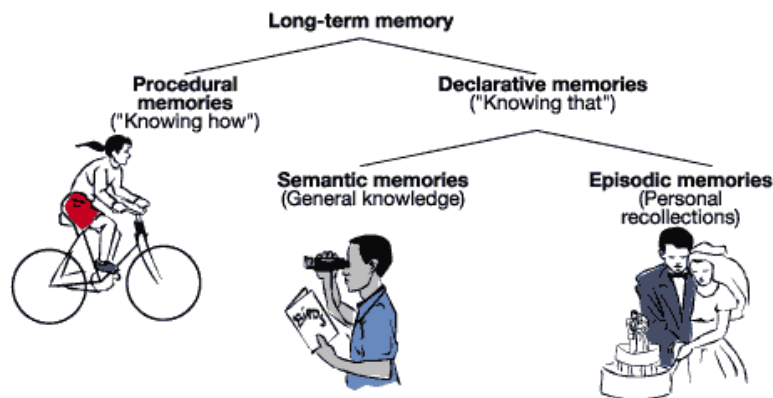
Maintenance rehearsal:

Chunking:



**Long term memory –**

**Explicit (Declarative) Memory:** Subsystem within long-term memory that consciously stores facts, information, and personal life experiences

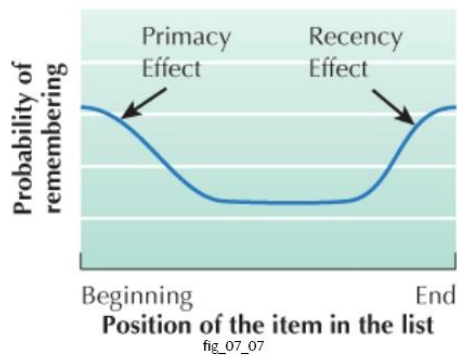


**Implicit (Nondeclarative) Memory:** Subsystem within long-term memory consisting of unconscious procedural skills and simple classically conditioned responses

**Levels of Processing:**

**Elaborative Rehearsal:**

**Serial Position Effect:**



**Anterograde amnesia –**

**Retrograde amnesia –**

**Flashbulb memory:**

**Implicit memory –**

**Explicit memory –**

**Recall –**

**Recognition**

**Encoding specificity principle –**

**Mood congruent memory:** A happy mood is likely to trigger happy memories, depression perpetuates itself through biased retrieval of depressing memories

## **Forgetting**

**Transience:**

**Absent-mindedness:**



**Proactive interference:**

**Retroactive interference:**

**Mnemonics:** Techniques for improving memory, especially by making connections between new material and information already in long-term memory (*examples?*)

**Figure 7.11**

**The effect of leading questions on eyewitness recall.** Subjects who were asked leading questions in which cars were described as *hitting* or *smashing* each other were prone to recall the same accident differently one week later, demonstrating the reconstructive nature of memory. (Based on "Reconstruction of Automobile Destruction: An Example of Interaction Between Language and Memory," by E. F. Loftus and J.C. Palmer, 1974, *Journal of Verbal Learning and Verbal Behavior*, 13, 585–589. Academic Press, Inc. Adapted by permission of the author.)

**Leading question asked during witness testimony**

**Possible schemas activated**

**Response of subjects asked one week later, "Did you see any broken glass?" (There was none.)**

"About how fast were the cars going when they hit each other?"



"Yes"—14%

"About how fast were the cars going when they smashed into each other?"



"Yes"—32%