

**A. Keywords:**

Processing – the operations we perform on sensory information in the brain  
 Input – sensory information we receive from our environment  
 Storage – the retention of information in our memory system  
 Encoding – turning sensory information into a form that can be stored in the brain  
 Acoustic encoding – the process of storing sound in our memory  
 Visual encoding – the process of storing something that is seen in our memory system  
 Semantic encoding – the process of storing the meaning (definitions) of information in our memory system  
 Output – information we recall and our behavioural responses  
 Retrieval – the recall of stored memories  
 Short-term memory – our initial memory store that is temporary and limited  
 Long-term memory – a memory store that holds potentially limitless amounts of information for up to a lifetime  
 Duration – the length of time information can be stored in STM and LTM  
 Capacity – the amount of information that can be stored in STM and LTM  
 Rehearse – when we repeat information over and over to make it stick  
 Displacement – when STM becomes full and new information pushes out old  
 Schema – a packet of knowledge about an event, person or place

**B. Memory and information processing**

The brain processes the information we receive from our sense. It pays attention to it and makes decisions based upon it. We unconsciously or deliberately store some sensory information. This requires encoding the sensory information. Once this is done, the memory system can store the memory trace for a few seconds or up to a lifetime. STM lasts around 18 seconds and holds about 7 pieces of information. LTM can last for minutes or up to an entire lifetime.

**C Multi store model of memory** Atkinson and Shiffrin identified 3 distinctive different stores in our memory system. The sensory register receives all the sensory information and if we pay attention to it information can be transferred to our STM where information can stay for 15-30 seconds. If we rehearse it we can retain it in our STM for much longer. LTM can hold information indefinitely and potentially has a limitless capacity.

**D. Expert Modelling:**

Parul struggles to remember things due to a recent accident. Explain how Parul could try and remember new events. You should refer to the multi-store model in your answer. (2)  
 Multi-store model suggests rehearsal is needed to transfer information to long-term memory (1) so Parul could verbally repeat information about new events over and over again to try and remember them (1).

**Subject: Psychology****Topic: Memory****Year: 11****E. Understanding amnesia**

Sometimes people experience a special type of forgetting called amnesia. This can often be after a trauma to the brain. Anterograde amnesia is the inability to store new long-term memories after a brain injury. Retrograde amnesia is where information before the brain injury cannot be recalled. HM is famous case of both types of amnesia as his brain was damaged during surgery. Since HM's death his brain has been used to develop research on memory and amnesia

**F Bartlett's theory of reconstructive memory**

Memories aren't an exact replication of what happened, they are an active reconstruction where we use our schemas (packets of knowledge about an event, person or place) to fill in gaps in recall. Schemas influence our memory in the following ways: cause omissions where we leave out unfamiliar or unpleasant details; transformations – details are changed to make them familiar or rational; familiarisation where we change details to align to our schema & rationalisation we add details into our recall to give a reason for something.

**G. Wider thinking / further reading:**

<https://learndojo.org/gcse-revision/aqa-psychology/memory/>