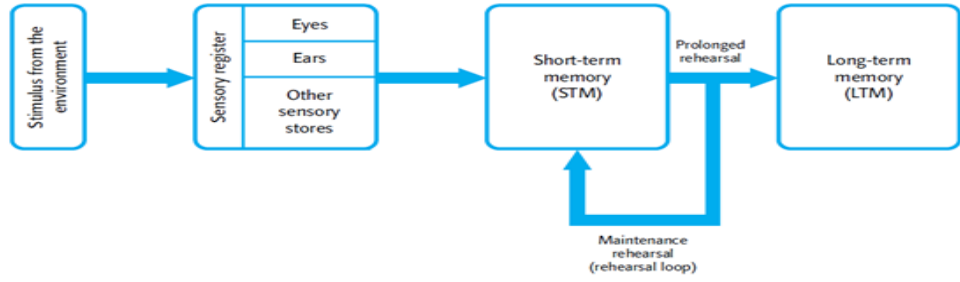


Unit 1 Memory Knowledge Organiser

| Key terms | | Processes of Memory | | Structures of Memory | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|---|--|---|--------------------|--|--|--|---------|-----|-----|----------|-------------|------------------|--------------------|----------|-----------|-----------|-----------|----------|------------|------------------------------------|----------|
| Key Term | Definition | | | Multi-store Model | | | | | | | | | | | | | | | | | | | |
| Encoding | info is changed from one form to another so it can be stored | <p>Encoding – changing info so it can be stored Different types of encoding include -</p> <p>Visual – some memories are stored visually Semantic – stored by meaning e.g. you know the word elephant and understand what it is Acoustic – memories stored by how they sound, e.g. favourite songs Tactile - is a memory of what things feel like Olfactory – memory for smells</p> <p>Process of memory can be described as</p> <ol style="list-style-type: none"> 1) Encoding – changing info so it is stored 2) Storage – keeping info in your brain for a period of time 3) Retrieval – info is located and brought back <p>Retrieving memories –</p> <p>Recognition – e.g. doing multiple choice questions or seeing someone and knowing who they are Cued recall – when you are trying to remember something which is on the tip of your tongue and then someone helps you be reminding you it starts with the letter ‘B’</p> <p>Baddeley (not named in the spec) Aim – to see if there was a difference in the type of encoding in STM and LTM Method – P’s learned words similar or dissimilar sounds, recalled immediately. Learned words with similar or dissimilar meanings and recall after 20 mins Results – similar sounding words poorly recalled in STM, words with similar meanings were poorly recalled in LTM Conclusion – STM is encoded by sound and LTM by meaning</p> <p>Evaluation: Controlled experiment – it is well controlled as extraneous variables like participants’ hearing were controlled by a hearing test STM is sometimes visual LTM may not have been tested as they only waited 20 mins before recall, so conclusion lacks validity</p> | <p>Long Term Memory – types</p> <p>Episodic – memory for events in your life Semantic – memory of what things mean Procedural – memory of how to do things Declarative / Non-declarative – declarative is your ability to consciously recall information and therefore episodic and semantic memories are described as declarative and procedural is non-declarative</p> <p>Evaluation Specific locations in the brain – brain scans have shown different types of LTM relate to different brain locations e.g. procedural memory is associated with motor area Amnesic patients – Amnesias like Clive Wearing support LTM as most of his procedural but not episodic memories were intact It is not that simple – distinctive types of LTM are difficult to separate so it may be an oversimplification.</p> |  | | | | | | | | | | | | | | | | | | | |
| Storage | how much your memory can hold | | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th></th> <th>Sensory</th> <th>STM</th> <th>LTM</th> </tr> </thead> <tbody> <tr> <td>Encoding</td> <td>From senses</td> <td>Acoustic (sound)</td> <td>Semantic (meaning)</td> </tr> <tr> <td>Capacity</td> <td>Very high</td> <td>5-9 items</td> <td>Unlimited</td> </tr> <tr> <td>Duration</td> <td>Very brief</td> <td>Less than 30 secs unless rehearsed</td> <td>Lifetime</td> </tr> </tbody> </table> | | | Sensory | STM | LTM | Encoding | From senses | Acoustic (sound) | Semantic (meaning) | Capacity | Very high | 5-9 items | Unlimited | Duration | Very brief | Less than 30 secs unless rehearsed | Lifetime |
| | Sensory | | | STM | LTM | | | | | | | | | | | | | | | | | | |
| Encoding | From senses | | | Acoustic (sound) | Semantic (meaning) | | | | | | | | | | | | | | | | | | |
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| Duration | Very brief | | | Less than 30 secs unless rehearsed | Lifetime | | | | | | | | | | | | | | | | | | |
| Retrieval | process of accessing information from your brain | | | | | <p>Role of rehearsal – you have to go over and over things to keep them in your STM, if you rehearse enough they will transfer to your LTM</p> <p>Evaluation Supporting research for the evidence of memory stores – Baddeley’s study clearly supports here! Model is too simplistic – in fact we have more than one LTM (see types of LTM) Artificial materials – word lists used in research makes the research lack validity</p> <p>Primacy and recency effects in recall Primacy effect – words at the beginning of a list are remembered more (rehearsed so in LTM) Recency effect – words at the end of the list are remembered more (heard recently so in STM) Murdock Serial Position Curve KEY STUDY Aim – to see if words are affected by the location in a list Method – P’s learned 20 word lists with 10-40 words on them, recalled after each list Results – recall related to the position of words, high recall for the first words (primacy) and last words (recency) Conclusion – shows the serial position effect and supports the MSM stores Evaluation: Controlled lab study – high level of control so it could be concluded position of words determined recall Artificial task – word lists were used which is only one type of memory, so study lacks validity Supporting research – some amnesiacs cant store LT, which shows the primacy effect is related to LTM</p> | | | | | | | | | | | | | | | | | |
| Sensory memory | large capacity, short duration, coding from 5 senses | | | | | | | | | | | | | | | | | | | | | | |
| Short-term memory | limited capacity, limited duration, coding acoustic (sound) | | | | | | | | | | | | | | | | | | | | | | |
| Long-term memory | large capacity, long duration, coding is semantic (meaning) | | | | | | | | | | | | | | | | | | | | | | |
| Episodic memory | for personal events | | | | | | | | | | | | | | | | | | | | | | |
| Semantic memory | knowledge of the world (facts) | | | | | | | | | | | | | | | | | | | | | | |
| Procedural memory | knowledge of how to do things | | | | | | | | | | | | | | | | | | | | | | |
| Duration | how long something lasts for | | | | | | | | | | | | | | | | | | | | | | |
| Capacity | amount of info stored | | | | | | | | | | | | | | | | | | | | | | |
| Multi-store model | model of memory with 3 separate stores, overemphasis on the role of rehearsal | | | | | | | | | | | | | | | | | | | | | | |
| Chunking | breaking words/letters down into chunks to help memory | | | | | | | | | | | | | | | | | | | | | | |
| Recency effect | words at the end of the list will be remembered as they have been heard most recently | | | | | | | | | | | | | | | | | | | | | | |
| Primacy effect | words at start of the list are remembered as they have been well rehearsed | | | | | | | | | | | | | | | | | | | | | | |
| Serial position effect | describes tendency for people to recall first and last words in a list best. It is the position of the words that influences their likely recall | | | | | | | | | | | | | | | | | | | | | | |
| Reconstructive Memory | fragments of stored info is reassembled during recall as the gaps are filled in using experience | | | | | | | | | | | | | | | | | | | | | | |
| Interference | forgetting may occur if two memories compete with each other | | | | | | | | | | | | | | | | | | | | | | |
| Context | situation in which something happens, can act as a cue for recall | | | | | | | | | | | | | | | | | | | | | | |
| False Memories | a memory which did not happen but which feels is a true memory | | | | | | | | | | | | | | | | | | | | | | |

Unit 1 Memory Knowledge Organiser

| Memory as an active process | | Factors affecting the accuracy of memory | | |
|--|--|---|---|---|
| Theory | Study | Interference | Context | False Memories |
| <p>People rebuild memory as an active process</p> <p>Memory is inaccurate – it is not an exact reproduction of experiences</p> <p>Reconstruction – record pieces of information recombined to tell the whole story</p> <p>Social and cultural influences – expectations come from the world/culture we live in, and affect storage and recall</p> <p>Effort after meaning – we focus on the meaning of events and make an effort afterwards to make sense of fragments of memory</p> <p>Evaluation</p> <p>More realistic research – reflects how we use memory in everyday life because it uses a story not word lists</p> <p>Some memories are accurate – not all recall is reconstructed as some memories of the story are accurate</p> <p>Real life application – explains problems with eyewitness testimony as people do not always recall accurately</p> | <p>Bartlett – War of the Ghosts KEY STUDY</p> <p>Aim – to see how memory is reconstructed when recalling an unfamiliar story</p> <p>Method – the War of the Ghosts story was read by one participant and recalled after 15 mins, then read by another participant and recalled and so on</p> <p>Results – P’s changed the story to fit cultural expectations, leaving out unfamiliar information</p> <p>Conclusion – we use our knowledge of social situations to reconstruct memory</p> <p>Evaluation</p> <p>Lacks control – P’s were not told accurate recall was important, which could have affected results</p> <p>Results were biased – Bartlett analysed the recollections himself, so we cannot fully trust the conclusions</p> <p>Story was unusual – story was unusual so may not reflect everyday memory processed</p> | <p>Interference is one explanation of forgetting. Forgetting may occur if two memories compete with each other, especially likely if the two memories are quite similar.</p> <p>McGeoch and McDonald’s Study (not named in spec)</p> <p>Aim – to see the effect of doing two activities on accuracy of memory</p> <p>Method – learned a list of 10 words and then another list of varying types e.g. synonyms and antonyms</p> <p>Results – memory was affected by the second list, most of all if the second list had similar meaning (synonyms)</p> <p>Conclusions – shows interference affects accuracy of memory and is strongest when you try remember two similar things</p> <p>Evaluation</p> <p>Controlled research – high control e.g. counterbalancing was used to reduce bias</p> <p>Artificial task – it does not reflect real life memory as we don’t often have to remember very similar words</p> <p>Not really forgetting – it may be information is not forgotten but just cannot be accessed so isn’t actually forgotten</p> | <p>Certain triggers (cues) can be encoded in memory at the time of learning. Context can increase the accuracy of memory.</p> <p>Godden and Baddeley (not named in spec)</p> <p>Aim – to see if context improved recall</p> <p>Method – divers listened to and recalled words in the same or different settings on the beach and underwater</p> <p>Results – recall was highest in the same environment for learning and recall</p> <p>Conclusions – context of learning acts as a trigger or cue, improving the accuracy of memory</p> <p>Evaluation</p> <p>Artificial task – lists of words were used, when more complex materials were used better recall was found</p> <p>Recall was short term – p’s recalled the words almost immediately unlike in everyday life</p> <p>Similar context – context only acts as a cue if context at learning and recall are very similar, which rarely happens</p> | <p>A false memory is a memory for something that did not happen but which feels like it were a true memory</p> <p>Loftus and Pickrell’s study (not named in spec)</p> <p>Aim – to see if false memories could be created in p’s through suggestions</p> <p>Method – four stories about childhood events were read where three were true and one was false (shopping mall)</p> <p>Results – 6 / 24 (25%) of p’s recalled the false story fully or partially</p> <p>Conclusion – imagining an event can implant a false memory in a person, reducing the accuracy of memory</p> <p>Evaluation</p> <p>Artificial task – harmless events could be implanted easily but traumatic events may not, so conclusions are limited</p> <p>Ethical issues – p’s may be left with implanted false memories which lingered after the study, causing distress</p> <p>Real-world applications – research has implications for eyewitness testimony as police questioning could accidentally implant false memories</p> |