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Coding, Capacity and Duration of Memory	Coding Baddeley- participants given 1 of 4 word lists to learn (semantically/acoustically similar/dissimilar). More confusion with acoustically similar in STM recall, more confusion with semantically similar in LTM recall. STM- coded acoustically, LTM- coded semantically. Capacity Jacobs- participants given a number of	Evaluation- Coding • Artificial stimuli- word lists had no meaning to participants. Not an everyday task, lacks mundane realism (ecological validity). Evaluation- Capacity • Jacobs- conducted in 1887, lacks temporal validity. Research was not as rigorous as it is now. • Miller- overestimated STM capacity. Cowan found it was around 4 chunks. Evaluation- Duration • Peterson & Peterson- artificial stimuli. Lacks mundane realism (ecological validity). • Bahrick et al- high external validity as stimuli was meaningful to participants. High mundane realism.	Types of Long-Term Memory	Tulving argued there was more than one type of LTM & the MSM was too simple. Episodic- memory of personal events. Memories from this store have to be retrieved consciously. Semantic- knowledge of the world. These memories also have to be retrieved consciously. Procedural- knowledge of how to do things. These memories can be recalled without	 Evaluation Clinical evidence- Clive Wearing. Episodic memory impaired, semantic & procedural were fine. Neuroimaging evidence- brain scans show episodic and semantic memories are recalled from prefrontal cortex; but episodic on the right, semantic on the left. Cohen and Squire- two types rather than three. Declarative (episodic
	letters/digits and asked to recall. 9.3 digit span, 7.3 letter span. Miller- noticed lots of things come in 7s. Concluded that people can recall 7 chunks of info, plus or minus 2.			conscious effort.	and semantic), and non-declarative (procedural).
			The Working Memory Model Baddeley and Hitch	Central Executive- attentional process, allocates tasks to slave systems Phonological Loop- auditory info. Phonological store- words we hear. Articulatory process- keeping words in a loop, so we can speak them. Visuo-Spatial Sketchpad- visual and spatial info. Logie subdivided into visual cache (visual data) and inner scribe (records current spatial awareness). Episodic Buffer- integrates visual & auditory info to record an event, which can be stored in LTM.	 Evaluation Clinical evidence- Shallice & Warrington. KF had good VSS but poor PL. Dual-task performance- Baddeley. Participants have more trouble doing two visual/auditory task, than one visual & one auditory task at the same time. Lack of clarity over central executive- most important but least understood component (Baddeley)
	Duration STM- Peterson & Peterson. 24 students shown trigrams, then asked to count backwards from a 3 digit number for a set amount of time. STM lasts about 18-30 seconds without rehearsal. LTM- Bahrick et al. High school yearbooks. 15 years after graduation- 90% facial recognition, 60% name recall. 48 years after graduation- 70% faces, 30% names. LTM can last potentially forever.				
Multi-Store Model of Memory Atkinson & Shiffrin	Sensory Register- split into iconic (visual), echoic (auditory), and other memory stores. Input info from the environment. High capacity, short duration. STM- info transferred to STM if we pay attention to it. Maintenance rehearsal keeps info in the STM. LTM- prolonged/elaborative rehearsal takes info from STM to LTM. To recall info, it must go back to the STM before we can remember it.	 Evaluation Supporting evidence- Baddeley. Shows evidence of 2 separate memory stores with different coding. More than one type of STM- Shallice & Warrington. Patient KF had a good visual STM, poor auditory STM. More than one type of LTM- Tulving et al. Procedural, semantic, episodic. The MSM is overly simple. 	Explanations for Forgetting: Interference Theory	Interference between memories makes it harder to locate them, so we think we've forgotten them. Proactive Interference- old memories interfere with new Retroactive Interference- new memories interfere with old Effects of Similarity- McGeoch and McDonald. Found that there is higher interference when memories are similar.	 Evaluation Evidence from lab studiesthousands of lab support, e.g. McGeoch & McDonalds Artificial materials- often involving lists of words. Lacks mundane realism (ecological validity). Real-life studies- Baddeley & Hitch. Rugby players asked to recall teams played in a season, interference strongest if more games played.

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Explanations for Forgetting: Retrieval Failure Theory	Encoding Specificity Principle- Tulving. Successful recall depends on the same cues being present at encoding and retrieval. Context-Dependent Forgetting- external cues. Baddeley & Hitch- deep sea divers study. Asked to learn & recall lists of words on land/underwater. Best recall when external cues the same. State-Dependent Forgetting- internal state. Carter & Cassaday- antihistamines. Asked to learn & recall lists of words on/off	 Evaluation Supporting evidence- Baddeley & Hitch, Carter & Cassaday. Eysenck-retrieval failure is the main reason for LTM forgetting. Questioning context effects-Baddeley. Context effects are not very strong, e.g. being in different rooms. Artificial stimuli- recalling meaningless lists of words is not an everyday task. Lacks mundane realism (ecological validity) 	Factors Affecting EWT: Anxiety	Positive Effect Yuille and Cutshall- interviewed witnesses of real life gun shooting. Those who rated themselves as highly anxious at the time recalled more info from the event. Negative Effect Johnson and Scott- participants in a waiting room and heard an argument. Low anxiety condition- man emerged with a pen and grease on hands, high anxiety- paper knife & blood on his hands. Better identification of man in low anxiety condition.	 Evaluation Weapon focus may not be relevant-Pickel et al used a video of a salon, recall equally bad when there was a gun & when there was a raw chicken. Unusualness rather than anxiety/threat. Field studies lack control-Yuille and Cutshall. Can't control what participants have done since the event, e.g. post-event discussion. Ethical issues- creating anxiety in a study opens participants up to psychological harm. Have to weigh up costs & benefits of doing this.
	the drug. Best recall when internal state the same.			Explaining Contradictory Findings The Yerkes-Dodson Law, adapted by Deffenbacher. Optimal point of anxiety.	
Factors Affecting EWT: Misleading Information	Leading Questions Loftus & Palmer- videos of car crash. Critical question- 'about how fast were the cars going when they each other?' contacted, bumped, hit, collided, smashed. More severe verb= higher estimated speed. Response bias explanation- changed how participants answered. Then, second experiment tested substitution explanation- whether the participants' memory had been changed. Asked if they'd seen smashed glass. Those asked the question with 'smashed' were more likely to say yes, but there was no glass. Post-Event Discussion Gabbert et al- showed pairs of participants videos of a crime from different angles. Experimental group- discussed afterwards, control group didn't. 71% in experimental group reported info they hadn't seen. 0% of control group did this.	 Evaluation Useful real life applications- can apply to real crimes to get more reliable information Artificial tasks- emotional levels differ between watching a video and witnessing a crime in real life. Lacks mundane realism (ecological validity). Individual differences- Anastasi and Rhodes. Younger generations more accurate in identifying suspects, however all age groups are most accurate when identifying someone of a similar age to themselves (own age bias). 	Improving the Accuracy of EWT: The Cognitive Interview	The Cognitive Interview Fisher and Geiselmann. Based on Tulving's ESP and other cognitive techniques to try and improve accuracy of EWT. 1. Recall everything- witnesses should recall every detail about the event that they can remember, as 'irrelevant' details may cue more important ones. 2. Reinstate the context- witnesses should 'revisit' the scene in their mind. Based on context-dependent forgetting. 3. Reverse the order- it is more difficult to lie if you're telling a story backwards. Also stops the interference of schema. 4. Change the perspective- witnesses should imagine the scene from a different perspective. Prevents interference from schema. The Enhanced Cognitive Interview Fisher et al- focus on social dynamics, e.g. eye contact. Reduce witness anxiety.	 Evaluation Cognitive interview is time consuming- takes longer than standard police interview to train & to conduct Some elements more valuable than others- Milne and Bull. Report everything & reinstate the context produce the best results. Support for effectiveness of enhanced cognitive interview-Kohnken et al found that the ECI produced more correct info than a standard police interview