Key concept 1 and key study



The War of the Ghosts

The following story was told to participants in Bartlett's

One right two young men from Egulac went down the fiver to hunt seals, and while they were there it became foggy and calm. Then they heard war-cries, and they thought. Maybe this is a war-party. They escaped to the shore and hid behind a log. Now canoes came up, and they heard the noise of paddles, and saw one canoe coming up to them. There were five men in the canoe, and they said:

going up the river to make war on the people What do you think? We wish to take you along. We are

One of the young men said: I have no arrows.

I will not go along I might get killed. My relatives do not know where I have gone. But you, he said, turning to the other, may go with them. Arrows are in the canoe, they said

So one of the young men went, but the other returned

And the warriors went up on the river to a town on the other side of Kalama. The people came down to the water, and they began to fight, and many were killed. But presently the young man heard one of the warriors say. Quick, let us go home, that Indian has been hit. Now he thought 'Oh, they are ghosts,' He did not feel sick, but they said he had been shot.

So the canoes went back to Egulac, and the young mar went ashore to his house, and made a fire. And he told everybody and said: 'Behold I accompanied the ghosts, and we went to fight. Many of our fellows were killed and many of those who attacked us were killed. They was hit and I did not feel sick."

He told it all and then became quiet. When the sun rose he fell down. Something black came out of his mouth. His face became contorted. The people jump

ecification terms

to make recall meaningful. Confabulation When details are added to a memory to fill in the 'gaps'

schema, to make the memory meaningful Rationalisation When parts of a memory are distorted to fit your

Reconstructive memory Pieces of stored information are reassembled 'memory' that makes sense (even if it is inaccurate). during recall. The process is guided by our schemas so that we produce a

rationalisation and confabulation. memory. They change (reconstruct) memories through shortening. Schema A mental package of beliefs and expectations that influence

Shortening When part of a memory is left out, so what remains is shorter.

Key concept: Reconstructive memory

What is reconstructive memory

Sir Frederic Charles Bartlett (1932) argued that memories are not reproductions what happened meaningful whole. The result is that memory is not a totally accurate record of and when we recall something, we build (reconstruct) these fragments into a memory like a video recorder would. Instead we store fragments of information but reconstructions (constructing the memory again). We don't record events in

Role of schema in memory

the key study below). Therefore, some parts of a memory are missing, some are schemas affect memory by influencing what we store and what we recall (see birthday party, firework, etc. — for people, objects, events. Bartlett believed our an aspect of the world. So we have schema for a mother, teacher, fire engine, A schema is a mental structure or 'package' containing our stored knowledge of distorted and some are added:

(e.g. unfamiliar or unexpected details) so what you remember is shorter. Shortening Parts of a memory that don't fit in with your schemas are left out

memories make more sense. Rationalisation Parts of a memory are recalled but in a distorted way that fits relevant schemas (but now it does). This happens so that strange or unfamiliar your schemas. So your memory of an event changed because it didn't match

schemas to (again) make better sense of the memory deliberate (it's not 'lying') and it doesn't happen randomly. It is guided by Confabulation Parts of a memory are invented to fill in 'gaps'. This isn'

Ghosts Key study: Bartlett (1932) War of the

Evaluation

errors followed a pattern? participants' recall of unfamiliar material be affected by schemas so that their Bartlett wanted to see if recall from memory is reconstructive. Would British

Procedure

serial reproduction. Bartlett kept a record of what each person remembered else and so on (like Chinese whispers). This method of testing memory is called (from memory) to someone who had not read it. This person told it to someone the Ghosts, see left). Each person read the story twice and 15 minutes later told it Bartlett showed 20 British participants an Inuit (Native American) folk tale (War of

Findings

The story was transformed in several ways:

- Shortening it was shortened significantly (because details were left out) The story is 326 words long, but after six or seven reproductions it became about 180 on average.
- Rationalisation Bartlett noticed that the supernatural element (at the hear of this ghost story) vanished altogether.
- Confabulation phrases were changed to language and concepts from the participants' own culture (e.g. 'boats' instead of 'canoes')

Conclusions

The transformations occurred because participants' schemas influenced what they could remember about the stopy. The material became more meaningful and easier to understand and remember.

Dased on unscientific research

reconstructive memory theory is correct, as it is

This means we cannot be confident that

bhosts story when he happened to 'bump into his participants only reproduced the War of the is the same for every participant. This was not true of Bartlett's study. For example, some of Standardised' so the experience of the study requirement for scientific research. procedures lacked consistency, which is a key One weakness of Bartlett's study is that its

Evaluation

Application to EWT

One strength is that reconstructive memory can help explain problems with eyewitness testimony

recall events accurately what 'should' happen), so people do not always scene, only for their testimony to be challenged that they had seen a certain person at the crime For example, an eyewitness might swear on oath of what happened when a crime was committed affected by schemas (including expectations of by evidence presented later. Memory can be EWT is often used in court trials to give a picture

to be based on EWT alone as it can be unreliable a very important application of research. Consequently, convictions in court are less likely

Some memories are accurate

One weakness is that not all memories are affected by schemas

his mouth because it was quite unusual. recalled the phrase 'Something black came out of detail. In Bartlett's study, participants often distinctive we can remember a lot of accurate situations that are personally important or Recall can be very accurate. For example, in

accurate and relatively unaffected by schemas. reconstruct memories, and memory can be highly This shows that people may not always actively

- 2. Using an example, explain what is meant by the term 'schema'. (3)
- 3. Explain one feature of schemas that can influence reconstructive memory. (2)
- 4. Explain how a cognitive psychologist would account for reconstructive memory. Use the concept of schema in your answer. (3)
- 5. Bob and Sue are friends who together witnessed a street robbery and gave statements statements. (3) Outline how a cognitive psychologist might explain the differences between the two Both realised that they included the same events but described them very differently longer than Sue's. Sue included some details that Bob did not remember happening
- memory. (3)
- studies support her argument.



Unscientific research more relevant to real-life memory when we try to recall an unfamiliar story of task (recalling a story) to show what happens things. Instead, Bartlett used an everyday kind rarely use memory to learn such meaningless

Therefore, he was able to draw conclusions

In scientific research, procedures are

to the same crime can often have different memories of it. reconstructive, so piecing together memories of what they saw is likely to be affected by schemas. This is why witnesse to remember things accurately. But memory is often truth and nothing but the truth, so they try their hardest wrong. They take an oath to tell 'the truth, the whole Witnesses very rarely lie. But they do sometimes get it

An issue to consider

B1 Cognitive approach Specification content

- Reconstructive memory, including the role of schema (shortening rationalisation and confabulation).
- Key study Bartlett (1932) War of the Ghosts.

3

GFACTIVE Wedding memories

Prince Harry and Meghan Markle were married in May 2018. The wedding was witnessed by millions of people on TV. Were you one of them?

- What do you remember about it?
- 2. Looking back, do you think that your memory of the wedding is accurate?
- 3. Choose a well-known event in the news that you 'witnessed' (e.g. on TV). you remember. can, and jot down some notes about what Try to recall as much detail about it as you

convinced must have happened but hasn't inaccurately? Is there anything you were for evidence of how your schemas may have Now, find an account in the media of the been reported? important details you missed out or recalled influenced your memory. Are there any event and compare it with your recall. Look



Exam-style questions

- State what is meant by the term 'reconstructive memory'. (1)

- to the police. They discussed afterwards what they had said. Bob's statement was much
- Explain how the findings of Bartlett (1932) support the view that schemas influence
- 7. Dev and Suni are discussing memory. Dev believes that recall is like playing back a recording. But Suni argues that recall is more of a reconstruction. Suni also believes that

role of schemas, including shortening, rationalisation and confabulation. (9) Discuss the view that memory is reconstructive. In your answer you should consider the

as RIZ and KUY). These are artificial because we artificial materials (e.g. 'nonsense syllables' such methods to study memory. One strength is that Bartlett used realistic Realistic theory and research

Before Bartlett's work, psychologists used

Key concept 2 and key study



Unit 1: Psychological appreaches and applications

Your teacher asks you to carry out a very simple task All you have to do is unscramble some mixed-up sentences You get them all right. You leave the classroom thinking. That was too easy What was it all about?"

You don't know it, but your teacher isn't interested in how you did on the task at all. Instead she's timing you to see how long it takes you to leave the room. She's done this with all the students in your class it turns ou you walked a lot slower to leave the room than some of your classmates did.

There could be many reasons, but here's an interesting fact. All of the students did the same task, but there were two versions. In one version, some of the words in the sentences related to being old (bingo, retired wrinkled etc.), in the other version the words were neutral (thirsty, clean, private, etc.) Guess what? You got the 'old 'version, Like you, all your classmates who got the old version were also slower to leave the room Sounds weird? Hard to believe? John Bargh, and his colleagues (1996) did this experiment.

Specification terms

Associative priming We process a stimulus more quickly (or recall it more easily) because we earlier encountered a stimulus that is often paired with it.

Cognitive priming We notice a stimulus (word, image,

object, etc.) more quickly when we see or hear a related stimulus first (the 'prime').

Cognitive scripts Knowledge of behaviours, roles,

Cognitive scripts Knowledge of behaviours, roles, outcomes, etc. stored in memory tell us what to expect in a social situation and how to behave.

Repetition priming We process a stimulus more quickly (or recall it more easily) because we encountered it earlier.

Semantic priming We process a stimulus more quickly (or recall it more easily) because we earlier encountered a stimulus related to it in meaning (semantics = meaning).

Et al.

Throughout your course you will be reading about many different research studies. The findings of a study are published in an academic magazine (journal) along with the name(s) of the researche(s) and the date when their report was published. When there are more than two researchers the convention is to write 'et al.' which means 'and others.' Simples.

Key concept: Cognitive priming

What is cognitive priming?

When you see or hear one stimulus (the 'prime'), this affects your response to a later stimulus (you usually process the later stimulus faster). The prime triggers a network of related concepts in memory, so that when the second stimulus occurs, activation is quicker, *friming* may happen below your level of awareness so you do not know your response is influenced.

Role of cognitive scripts

You have learned how people normally behave in many social situations, such as being in a restaurant. The term cognitive script is used to describe what you have learned. It is like learning to act a scene in a play – the text for a play is called a script and tells you what to do and say.

Cognitive scripts are learned through experience (including from TV and books). When in a social situation, we recall from memory (without being aware) the relevant script containing the features of the situation, what we can expect and how we should behave.

Types of cognitive priming

Repetition priming When you encounter the prime (e.g. the word avocado) you process it more quickly when you see or hear it again later than you otherwise would have done.

Semantic priming Two stimuli mean the same thing or have similar features. For example, if you see or hear the word *loptop* later you see or hear the word *loptop* later you process *laptop* faster because it is related in meaning (semantically) to the prime.

Associative priming The prime and the later stimulus are related but not semantically, for example, fish and chips are so often paired that they are closely associated in memory. If you are exposed to one you are more likely to later recognise or recall the other.



Key study: Harris et al. (2009) Priming effects of television food advertising on eating behaviour

Aims

The researchers wanted to see if watching food adverts on TV would cause adults and children to automatically eat available snacks.

Procedure

Schoolchildren watched a cartoon – some saw a version with ads for food, others saw it with non-food ads. All were given a snack while watching the cartoon and the researchers measured the amount eaten.

Adult students watched a TV programme – some saw a version with food ads promoting snacking as fun, some saw it with food ads promoting health, the rest saw it with no food ads. Afterwards, the students tasted and rated five snacks ranging from healthy (carrots) to unhealthy (cookies). The researchers measured the amount of each snack eaten.

Findings

Children who saw the food adverts ate 45% more of the snack than the other children. This difference was not related to any other factor.

Adult students who saw the fun snack adverts ate more (of all foods) than the other students (especially men and people who were 'dieting'). Hunger before eating was unrelated to amount eaten in the fun snack group.

Conclusions

The findings provided 'converging evidence of an automatic, direct causal link between food advertising and greater snack consumption. Advertising is powerful because it has multiple priming effects, including short-term (enjoyment) and long-term (healthy eating).

Cognitive priming could help us to understand how viewing screen-based adverts, vlogs and programmes affect our behaviour. Does watching violent programmes prime us to be more aggressive? Does a 'diet' of food adverts prime us to eat more?

Valuation

Evidence supports cognitive scripts

One strength is that cognitive scripts can help us understand the effects of video gaming on aggressive behaviour.

In a study by Ingrid Möller and Barbara Krahé (2009), students read a scenario in which someone is actidentally pushed so they spill their drink. Students who frequently played violent video games were much more likely than other students to interpret the push as deliberate. They were also more likely to choose physical *aggression* as a suitable response.

aggression as a suitable response.

This shows that people who play violent video games find it relatively easy to recall aggressive cognitive scripts stored in memory, supporting the idea of associative priming

Lack of replication

One weakness of cognitive priming is that the research it is based on is very hard to replicate.

Replication is an important feature of science. If a study is repeated using exactly the same procedure and produces the same finding, then we know that the outcome is not a fluke and it is more likely to represent something real. But when researchers replicate priming studies, they often get different findings. This suggests that the researchers themselves might be influencing the outcomes.

This implies that the concept of priming is not scientific and we cannot be confident that the theories are correct.

Evaluation

Application to the problem of obesity

The key study can help us to understand and prevent cognitive causes of obesity. Harris et al. showed that advertising can affect how many snacks children and adults eat because of cognitive priming. Once we understand the effects of priming we may be able to prevent this influence (or direct the influence towards healthy eating). This means that education and legislation (although politically difficult) could help

Artificial conditions

to prevent obesity, for example, especially in children

Une weakness of the key study is that it was conducted in 'artificial' conditions, For example, every child watched the cartoon and adverts on their own in a classroom at their school (or an unoccupied room at a summer camp). This meant the conditions differed from real-life viewing of adverts, which usually takes place in the home environment and often with other people.

herefore, the key study may not provide meaningful evidence for the effects of cognitive priming and cognitive scripts on real-life behaviour.

GFACTIVE Sabiha and Imy

abiha's friends all watch the popular series Game of Thrones, so site decided to read about it and watch an episode. By the end of the day, site had seen or heard the word 'throne' in lots of different places – in overheard conversations, on Twitter and Facebook, even in her college textbooks.

l. What type of cognitive priming is this?

Describe another type of priming that Sabiha might have experienced.

my was going to the cinema with her parents to see the latest blockbuster. 'I'm going to have some popcorn and an ice cream,' she said as they left the house.

3. How do cognitive scripts explain Imy's comment?

1. State what is meant by the term cognitive priming

Exam-style questions

- Give an example of how cognitive scripts might affect behaviour in everyday life. (2)
- Describe one finding of the key study by Harris et al. (2009). (2)
 Explain one strength or one weakness of the key
- study by Harris et al. (2009). (3)

 5. A psychologist asked a group of students to read a brief passage and then complete a word task. The passage described the layout of a doctor's surgery. The task was to complete words with missing letters (e.g.
- (a) Describe the finding you would expect the psychologist to get. (2)
 (b) Use the concept of cognitive priming to explain

the word task but did not read the passage first

_ S _). Another group of students also completed

this finding. (3).

6. Some psychologists believe that cognitive priming affects our everyday behaviour without us realising. Others argue that priming only really exists in

Others argue that priming only really exists in .

Others argue that priming only really exists in .

laboratory-based artificial studies.

Discuss the role of cognitive priming in influencing behaviour. In your answer you should consider different types of priming and one example of

An issue to consider

real-life behaviour. (9)

f you use social media you m expossed to cognitive priming a san you explain how?

Specification content

B1 Cognitive approach Key concept:

- Cognitive priming, including the role of cognitive scripts and different types of priming (repetition, semantic and associative).
- Key study:

 Harris, Bargh and Brownell (2009) Priming effects of television food advertising on eating

Key concept 3 and key study



Do you live in a filter bubble?

your preferences and these reinforce your current serve up to you. You see only items that match social media such as Facebook. Algorithms detect your preferences and tailor what the news feeds You might well do if you get your news from social media such as Facebook. Algorithms c s. You rarely get to see information that dicts or challenges what you already believe

chamber because all you ever read or hear are you own views reflected back at you Such 'filter bubbles' are sometimes called an echo

to democracy because other viewpoints and opinions are excluded from social media feeds to spend the time or effort doing that extra work Some people argue that filter bubbles are a threa you want to read other views you have to work arder to find them. Most of us can't be bothered

Specification terms

our attention, memory and decision-making. Cognitive biases Errors in how we process information that affect

it out and ignore contradictory information. easily) information that supports our existing beliefs. We may seek Confirmation bias We pay more attention to (and recall more

overlook the role of the situation. people's behaviour, we focus on their personal characteristics and Fundamental attribution error In explaining the reasons for other

else's behaviour has an aggressive or antagonistic motive when it is Hostile attribution bias A tendency to assume that someone

actually neutral



Key concept: Cognitive biases

What are cognitive biases:

the plus side they simplify social interactions and allow us to make decisions quickly what we remember and how we make decisions. Cognitive biases are risky because (they are 'shortcuts' that help us process incoming information). they undermine our ability to make rational choices and logical decisions. But on These are errors in how we process information. They affect ('bias') what we notice,

Fundamental attribution error (FAE)

in terms of personal characteristics (maybe he is late because he doesn't think it is explaining why someone was late or aggressive. Generally our explanations are either Attribution is the process of trying to explain other people's behaviour, for example important to be on time) or situation (maybe he is late because he missed his bus).

fact there could be many situational causes of the behaviour (e.g. the dog ate it). teacher might believe it's because the student is lazy (a personal characteristic). But in role of the situation. For example, if a student fails to hand in an essay on time, their We naturally tend to overemphasise personal characteristics and downplay the

Confirmation bias

that challenge our beliefs, and stop looking for contradictory information. and we store and recall it more readily. But we ignore, downplay or reject examples confirms your view of the team. We notice confirmatory information more quickly if you support a particular football team you are more sensitive to information that We tend to favour information that supports a belief we already hold. For example,

Hostile attribution bias

fact it is neutral. Someone with this bias may respond aggressively to what they see We may wrongly interpret other people's behaviour as threatening (hostile) when in accidental jostle in a crowded pub) as a deliberate intention to cause them harm but is really an innocent act (e.g. an

Reconstruction of automobile destruction Key study: Loftus and Palmer (1974)

Aims

The researchers wanted to see how changing one word in a question would affect (bias) people's estimate of the speed of a car in an accident

cars going when they questions. One of the questions (the critical question) was: 'About how fast were the University students watched film clips of car accidents and then answered written (into) each other?'

collided or smashed instead. question but with a different verb (in the space). One group was asked the question with contacted in it, another with bumped in it, and the other groups with hit, The students were divided into five groups. Each group was asked the same critical

Findings

bumped and 34.0 for hit lowest for contacted (31.8). The other mean estimates were 39.3 for collided, 38.1 for The average (mean) estimated speed was highest for smashed (40.5 mph) and The students' speed estimates were influenced by the verb in the critical question.

Conclusions

Changing just one word in a question can bias responses (because the participants estimates matched the 'strength' of the verb). Loftus and Palmer later showed that changing the verb did more than just bias responses; it changed the participants' memories of the accidents.

Evaluation

Applications to real-life behaviour

(e.g. politics, sport). We only seek information that supports our current preferences (e.g. for one political party) and ignore everything else.

This is useful because understanding cognitive biases is the first step in are aggressive. Their thinking is biased towards an aggressive interpretation of One strength of cognitive biases is that they can be applied to behaviour in real life other people's behaviour. Confirmation bias explains why behaviour can be 'tribal' For example, the hostile attribution bias helps us understand why some people

preventing them affecting behaviour, reducing aggression and conflict

The FAE is not universal

In some cultures One weakness is evidence that the fundamental attribution error (FAE) only exists

understood in such cultures. However, in collectivist cultures (e.g. China) the to be attributed to individual characteristics because that is how behaviour is group/community is prioritised over individual needs, so people tend to attribute individual needs above the needs of the wider community. So behaviour tends behaviour to situational factors and not to personality. Some cultures (e.g. USA) are described as individualist because people value

all human behaviour (this may also be true of other biases) This suggests that the FAE is likely to be culturally-specific and not a feature of

One strength of the key study is that it was highly controlled

viewpoint. In a real-life situation participants' estimates of speed might have For example, each participant witnessed the (filmed) accidents from the same As it was carried out in lab conditions, irrelevant variables could be controlled

Biased sample of participants

(55-78 years). (18–25 years) are more accurate in their eyewitness reports than older people Some studies (e.g. Anastasi and Rhodes 2006) have shown that younger people

This means estimates in this study are unlikely to represent the responses

One weakness of the key study is that the participants were relatively young

Evaluation

Experimental contro

been affected by where they were standing. This means we can be more confident that the critical word changed the speed

estimates because extraneous variables were controlled.

(University students).

of older people, making it hard to generalise findings to the wider population (where estimates may be even less accurate)

GFACTIVE A wrong diagnosis

diagnosed Lyme disease. This is a bacterial infection usually He prescribed ointment for the rash and ibuprofen for the pain. opinion. The second doctor ordered a blood test and Unhappy with this outcome, the patient sought a second and had Type 2 diabetes. The doctor diagnosed intertrigo, ■ woman visited her doctor with two major symptoms – a rash under her arms and pain in her joints. The patient was obese which is inflammation caused by folds of skin rubbing together. This real case was described by Caroline Wellbery (2011). A

How did confirmation bias contribute to the wrong diagnosis the case to support your explanation. and treatment? Identify at least two specific examples from

caused by a bite from a tick (for example when walking in the

Do you think the fundamental attribution error might also have played a role? Explain how



someone with this cognitive bias might think it is. attribution bias. Spilling someone's drink is not usually deliberate but Did you spill my pint?' Some aggression can be explained by the hostile

Exam-style questions

- State what is meant by the term 'cognitive biases'. (1) Choose one type of cognitive bias and explain how it
- Jessie and Keira were trying to persuade Lennie to join might affect behaviour in everyday life. (2)
- so Jessie said to Keira, 'He doesn't want to go because Describe one type of cognitive bias Jessie is showing. (2) he's just a grumpy old misery guts.' them on a night out in town. Lennie didn't want to go
- Describe one example of the hostile attribution bias in everyday life. (2)
- Describe one finding of the key study by Loftus and Palmer (1974). (2)
- Explain how one finding by Loftus and Palmer (1974) demonstrates the role of cognitive biases. (3)
- Explain one strength or one weakness of the key study by Loftus and Palmer (1974). (3)
- Charlie was convinced he had cancer because he had a dull aching pain in his lower abdomen. So he went on cognitive biases. (3) Explain Charlie's behaviour using your knowledge of said to his best friend, 'I told you I had cancer.' lower abdomen is a symptom of cancer. 'You see,' he the internet and found out that a dull aching pain in the
- Evaluate the role of cognitive biases in real-life more different types of cognitive bias and one example of real-life behaviour. (9) behaviour. In your answer you should consider **two** or

An issue to consider

Specification content

Key concept: Cognitive approach

0 Cognitive biases, including fundamental attribution error, confirmation bias and hostile attribution bias.

Loftus and Palmer (1974) Reconstruction of automobile destruction.



enoireallogis bus sarbsorigus leatgolorlays? : l'ifrill

If you wanted to carry a gun, you wouldn't be able to in the UK because the law prevents, you. It's different in the USA. People who are considerate drivers? No, it does not llowed to own guns sometimes keep them in ieir cars. Does this make them kinder, more

(2017), people drive more aggressively and are more abusive to other road users when there is a gun in the car (as opposed to a tennis racket) ist has to be there According to Brad Bushman and his colleagues have to do anything – it

This is called the weapons effect and is nicely summarised by a quote from Leonard Berkowi (1967). The ringer pulls the trigger, but the trigger may also be pulling the ringer

Specification terms

or physical injury. Aggression Behaviour that is intended to cause psychological

accompanied by physiological arousal. Hostile aggression Angry and impulsive aggression usually

It is actually neutral else's behaviour has an aggressive or antagonistic motive when Hostile attribution bias A tendency to assume that someone

more quickly when we see or hear a related stimulus first (the Priming We notice a stimulus (word, image, object, etc.) aggression usually not accompanied by physiological arousal Instrumental aggression Goal-directed and planned

Instrumental aggression. Not that kind of instrument.



Types of aggression

heart rate and blood pressure. It is often physical but sometimes verbal or relational (see impulsive aggressive behaviour. It is accompanied by physiological arousal, e.g. increased Hostile aggression is sometimes called reactive or 'hot-blooded', this is angry and Psychologists define aggression in terms of three main types of behaviour.

aggression (as an "instrument") to get what you want. Therefore, it is goal-directed, Instrumental aggression is proactive or 'cold-blooded' because it involves using

example, of bullying, It can be physical, verbal or relational, usually intended to provoke planned and usually not accompanied by physiological arousal. This would be typical, for

example firing off an angry text or social media post in the 'heat of the moment' or campaign of aggression to undermine an individual. But it can also be hostile, for gossip or withdrawing friendships. This is instrumental when used as part of a plan Relational aggression involves damaging relationships by, for example, spreading

The cognitive approach

Priming for aggression

They argued that the weapon was a cue that triggered (or primed) aggressive schemas in the minds of participants. a laboratory was associated with stronger electric shocks being selected by participants. Leonard Berkowitz and Anthony LePage (1967) noted that the presence of a weapon in

cues (e.g. an accidental nudge) prime it, making it easier to recall involve and how they can develop. The script is stored in memory until environmental provides us with a cognitive script (see page 14) which indicates what violent situations (e.g. films, games) can cause aggressive behaviour. Repeatedly viewing such media Berkowitz (1984) and many others have used this theory to explain how violent media

media posts may prime aggressive thoughts in users) such as Instagram and Facebook (e.g. constant exposure to angry and aggressive social Researchers have expanded this account to incorporate modern social media sources

accident. This partly accounts for the automatic nature of much hostile aggression. someone who 'jumped the queue' in a shop was being hostile when it was really an completely unrelated situation, for example when out shopping we might believe that And then later, we would make a wrong interpretation of someone else's behaviour in a and aggressive behaviour in one social situation, for example, watching a TV programme Priming occurs without us even being aware of it. We might observe someone's hostile

Hostile attribution bias (HAB)

We looked at this briefly on page 16.

with a HAB is more likely to see this as a deliberate act directed personally at them. For most of us, if someone accidentally stumbles into you, you understand it wasn't their as threatening or aggressive (hostile) even if it is in fact neutral or ambiguous (unclear). fault' and they meant nothing by it (you might even apologise to them!). But someone People with a hostile attribution bias (HAB) tend to interpret other people's behaviour

correct and they were justified in being aggressive aggressive behaviour, then this confirms to the person with a HAB that their belief was verbally or physically aggressive. If the people around them respond with their own This is a self-fulfilling process. Someone with a HAB may feel provoked and become

behave aggressively in supermarkets. Thus a HAB is created. as neutral). If that person has a schema for supermarkets that includes the information 'there is intense competition for a place at the checkout', this predisposes the person to a social situation that might be aggression-related (even if other people interpret them processing of social information. A person with a HAB pays special attention to cues in According to Nicki Crick and Ken Dodge (1996), a HAB is the result of abnormal

GFACTIVE Tomos and Sheena fomos regularly uses social media. He contributes angry posts to fierce

He apologised but Sheena squared up to him and they almost came to blows. the person she was working with accidentally dropped a hose reel on her foot misinterprets her colleagues' behaviour. For example, once during training Sheena is a firefighter who has a reputation for being 'spiky'. She often mood. He shouts at students and is very 'short' and offnand with other teachers. morning. Tomos is a teacher and by the time he gets to school he is usually in a bad arguments often in the evenings, sometimes during the night and in the

- Identify and explain the types of aggression in these scenarios.
- 2. Explain how the cognitive approach accounts for the behaviour of Tomos and Sheena.

Evaluation

Research support for priming

One strength is that several forms of media have been found to prime aggressive

by the researchers about how to behave). Similar findings were obtained with female also behaved more aggressively towards a female confederate (someone instructed neutral lyrics, participants later recalled more negative qualities about women. They participants listening to 'men-hating' lyrics. aggressively derogatory lyrics about women. Compared with when they listened to prime aggressive cognitive scripts. Male participants listened to songs featuring Peter Fischer and Tobias Greitemeyer (2006) investigated how song lyrics can

Research support for hostile attribution bias This provides experimental support for the role of cognitive factors in aggression.

Another strength is that many studies have found a link between HAB and

at the age of five years. Possibly a HAB is the result of social learning (see page 28). which it could develop in children mothers with a HAB tended to have more aggressive children who also showed a HAB hostile attributions and aggressive behaviour. Sarah Healy et al. (2015) found that found that 37 of the studies agreed there was a significant association between This research shows the importance of HAB in aggression and suggests one way in Bram Orobio de Castro et al. (2002) reviewed 41 studies of HAB in children. They

Correlation not causation

factors and aggression. One weakness is that most of the research shows a correlation between cognitive

allow us to identify the direction of causality. of people with a strong HAB being more aggressive, it may be that being more strong HAB and aggressive behaviour such as lack of money. BEGressive produces a strong HAB. Or perhaps a third factor is responsible for both the behaviour. This is because no variables are manipulated or controlled. Instead But correlational research does not show that HAB (or priming) causes aggressive This means the conclusions are limited because correlational research does not for instance, studies show that a strong HAB is associated with more aggression.

Applications of the cognitive approach

One strength is that aggressive behaviour could be reduced using the cognitive

much reduced HAB and less aggression (as rated by staff) Positie attributions with positive ones. Compared with a control group, they showed a Ronald Slaby (1990) helped male and female adolescent prison inmates to replace to change HABs and thoughts that prime aggressive behaviour. Nancy Guerra and Problematic behaviours. In this case, we can apply the cognitive understanding of the behaviour – but also because they can be developed into methods to reduce aggression to a means of reducing aggression. Cognitive therapy, for example, tries Explanations for any behaviour are useful because they help us to understand

reducing aggression and the social costs that go with it. This means that real practical benefits are possible using the cognitive approach,

Exam-style questions

angry and aggressive interactions that we may carry over Social media can have priming effects by exposing us to

into the face-to-face world.

- Explain what is meant by the term 'instrumental dggression. (2)
- 2. Explain how the cognitive approach accounts for answer. (3) aggression. Use the concept of cognitive bias in your
- 3. Give three features of the cognitive approach that can explain aggression. (3)
- Freida was in a pub when a man accidentally trod on Harris et al's (2009) study showed how cognitive cognitive priming can affect aggressive behaviour. (3) priming can influence behaviour. Explain how
- (a) Describe the type of aggression shown by Freida. (2) angry and hit him in the face. her foot. Even though he apologised, Freida still got
- (b) Use one aspect of the cognitive approach to explain Freida's behaviour. (2)
- (c) Evaluate the view that aggression is mainly the and (ii) reference to Freida. (9) should consider. (i) the concept of cognitive biases, result of cognitive factors. In your answer you



Specification content

C1 Use of psychology to explain issues of aggression in society Learners should be able to demonstrate knowledge of different types of aggression. l contemporary

Hostile and instrumental

Learners should understand and apply knowledge of how psychological concepts and research can be used to explain aggression in society.

Cognitive, including priming for aggression, hostile attribution bias

Content area C2: Use of psychology in relation to consumer behaviour

Cognitive approach to consumer behaviour



consumers to accept an advert's message uncritically what a person is thinking. In advertising it is used to entice Brainwashing techniques Methods used to alter or try to control

with the purchase and use of goods and services. Consumer behaviour The study of all the activities associated

so a consumer is not aware of ther In advertising such messages may be presented quickly or hidden Subliminal messages Stimuli that are not perceived consciously.

actor. Why are we always so willing to might just be an really a dentist? He Nice man but is he

What is consumer behaviour?

or services to buy, and all the activities that influence those decisions, including Consumer behaviour refers to how people make decisions about what products advertising. There are two major types of advertising:

product (or brand or service). Similar products compete for the greatest share of the Product recognition Most advertising aims to make consumers more aware of a market, so making your product recognisable is crucial

the public about a product or brand. For example, cigarette advertising used to try to overcome negative attitudes towards smoking in order to increase sales Campaigns to change public opinion Some advertising tries to change the views of

Cognitive explanations

advert's content (e.g. advertising an everyday product in a 'wacky' way). them. This is schema incongruity, a deliberate conflict between our schemas and an to us. Therefore, adverts are more likely to challenge our schemas rather than confirm is the enemy of advertising. Schemas allow us to say, 'If you've seen one vodka adver you've seen them all, and we will be less likely to recall the brand being advertised etc. (see page 12). Schemas help us to make sense of the world by making it more A schema is a mental 'package' of knowledge relating to a concept, object, event predictable, and this is true of commercial brands and products. However, predictabili

Cognitive priming and advertising

is then associated with the brand name. Then, at a later time when the context is encountered the viewer is primed to recall the brand. They start with a context, a positive one such as 'roominess' or 'smooth ride'. This is a good example. Very few car TV adverts begin with the brand or model name. schemas in the minds of viewers, making a product more accessible. Car advertising that a key form of priming is the context of an advert. Like any prime, context activate We looked at cognitive priming on page 14. In advertising, Youjae Yi (1990) argued

Absolut Vodka ran a TV advert with an image of their brand name hidden in ice cubes the message is 'hidden' within a stimulus that we can detect. For instance, in 1990 Subliminal messages are a form of priming below the level of awareness. Often Another form of 'voluntary' subliminal messaging is self-help podcasts and videos.

These claim to contain undetectable messages for you to see or hear, that will impro

communicate to encourage uncritical acceptance of whatever messages the advertiser wishes to your memory or self-esteem, or help you give up smoking or lose weight, etc. Brainwashing In the context of consumer behaviour, 'brainwashing' is intended

or image) is repeated many times to create an association with a product. Sounds and emotions, to bypass critical thinking. colours are also used repetitively. Another important feature is an obvious appeal to A common technique is repetition, whereby the central message (a word, sentence

Biases and advertising

even filter out competing brands. They seek to confirm that their decision was correct who has a good experience of a product will be receptive to its advertising and may already believe, called a confirmation bias. This helps explain brand loyalty. Someone **Confirmation bias** Consumers prefer to hear information that confirms what they

authority figure, who is likely to be an 'expert'. For example, adverts for toothpaste Authority bias Consumers tend to assign more credibility to the opinion of an th<u>a</u>t a consumer has already formed, confirmation bias can work against a product. couple of years. However, because it is hard to overturn a negative opinion of a brand This is important in a retail market where customers upgrade their device every

persuaded by the authority even when they suspect the dentist is actually an actor often use 'dentists' to explain the benefits of the product. Consumers are more

We have schemas for countless aspects of the world around us. This includes ...helps you work, rest and play'. That sentence is part of my schema for Mars bars GFACTIVE 'A Mars a day...

1. Make a list of the words you associate with a Mars bar. This list represents products that are advertised to us as consumers. To get an idea of how product schemas work, think about a product you are familiar with, such as a Mars bar,

- 2. Compare your schema to those of others. How similar are they? If they are your product schema for Mars bars.
- similar, why are they so similar?
- Outline an advert for Mars bars based on your schema
- What would be the advantage of making an advert 'schema-incongruent'?

Evaluation

Supporting research for cognitive priming

One strength is evidence for the effects of priming in different senses Adrian North (2012) asked four groups of people to taste and describe wine as

match the characteristics of the music, even though they all tasted the same wine. fourth's was 'mellow and soft'. The descriptions given by the participants tended to characteristics: one heard a 'powerful and heavy' piece, another heard something that was 'subtle and refined', a third group's music was 'zingy and refreshing' and the background music was played. Each group heard a piece of music that had different This supports priming as a key influence on memory

Effects of subliminal messages are weak

One weakness is poor evidence for the effects of subliminal messages

or no effect on behaviour even in very limited circumstances. select Powerade, but only if they were already thirsty. However, this effect disappeared only for very short periods of time. Laura Smarandescu and Terence Shimp's (2015) Anthony Pratkanis and Elliot Aronson (1992), there is no evidence at all that they work drink from a shelf. Compared with a control group, participants were more likely to their screens without their awareness. Later, the participants were asked to select a participants were being subliminally primed with the word 'Powerade' flashing on participants carried out a visual detection task on a computer screen. However, the our will, but it is more likely that they have very weak influences on behaviour and altogether when a 15-minute delay between the prime and selection was introduced These findings suggest that priming effects through subliminal messages have little Similarly, self-help programmes continue to be popular even though, according to The popular view is that these messages can make us buy or do something agains

Problems of replication in research

outcome. This was the issue that uncovered James Vicary's deception (see facing to replicate it. That is, they should be able to repeat the study and get the same of replication. For a study to be considered scientific, psychologists must be able Page) - no one could replicate the effect Another weakness is that the findings of research into priming are often contradictory behaviour. But some studies do show positive effects. This apparent contradiction llustrates a serious problem in research into cognitive priming and advertising – that Most studies do not support the view that priming can significantly affect consumer

This undermines the claims about the value of priming in consumer behaviour

Ethical issues

Dased on the cognitive approach A final weakness is that there are ethical issues involved in advertising techniques

Perhaps less obviously unethical but it could be interpreted as a form of deception subliminal advertising is banned in most countries. The use of cognitive priming is know the true nature of the advert and the product. This is one reason why direct Consumers are by definition unaware they exist. The person therefore does not This means that psychologists should think very carefully about their professional For instance the use of subliminal messages in advertising is unethical because

involvement with techniques deliberately designed to manipulate consumers

C2 Use of psychology in business to explain and influence consumer behaviour.

Learners should understand and apply knowledge of how psychological concepts and research can be used to understand and inform strategies Learners should be able to demonstrate knowledge of the means used to influence behaviour, including types of advertising (product recognition campaigns aimed at changing public opinion)

Cognitive, including schema, cognitive priming (including subliminal messages and brainwashing techniques in advertising), biases in information processing.

Exam-style questions

Explain what is meant by the terms 'subliminal messages' and 'brainwashing'. (4)

consumer behaviour. Use the concept of schema in Explain how the cognitive approach accounts for your answer. (3)

3. Give three features of the cognitive approach that can explain consumer behaviour. (3)

4. Explain one strength of the cognitive approach to consumer behaviour. (3)

Edgar uses social media a lot and sees many adverts. (a) Explain one example of priming in this scenario. (2) always buys things advertised by experts in white coats. he liked the look of the beaches in their advert. Edgar advertised. He booked a hotel through a website because because he sometimes buys products he has seen His partner thinks he is too easily influenced by them

6. Discuss techniques based on the cognitive approach that are used to influence consumer behaviour. In your priming, and (b) advertising. (9) answer you should consider: (a) schemas and cognitive influence Edgar's behaviour as a consumer. (3)

(b) Outline how one information processing bias might

Link it

What can Harris et al. s (2009) study tell us abou

ecification content

aimed to change behaviour.

Cognitive approach to explaining gender

and raised as a boy.
But for as long as she
could remember, she
felt strongly that she
was really a girl. She
diessed and played as she went to school, she did so as a boy of her own gender was a girl, she behaved as a girl, she viewed herself as a girl, Livvy's sense being a girl. But when Livvy James ivvy was born Samue

The conflict between her assigned and expressed gender was causing Livry distress (which psychologists call *gender dysphorio*). So when she was 10 Livry decided she wanted to be herself with her family's support, after the summer holiday of 2011, she returned to school as a girl. Some of her schoolmates being sensitive towards the wishes of people ivvy's experience shows the importance of ted her gender but others bullied her

Terms associated with gender

female. This is a psychological construct and a person's gender may not always be the On this and the following spreads, we look at the topic of gender – being a male or same as that person's biological sex (XX or XY chromosomes).

androgynous (both masculine and feminine). are either masculine or feminine. Non-binary people — who do not identify as exclusively even throughout their lives. It is a spectrum rather than a binary construct in which you masculine or feminine – may be gender-neutral (neither masculine nor feminine) or Gender is usefully seen on a spectrum along which people vary from one another and

matches this norm as 'gender-typical'. Identity or behaviour that does not match is Western (and other) cultures. Therefore, we refer to gender identity or behaviour that abnormal' or inferior, but is not common. gender-atypical". This is intended to convey the fact that *gender-fluid* identity is not Views about gender are changing but the gender binary is a social norm in most

Cognitive explanations

gender schema and our behaviour. Gender schema theories try to explain how and when we acquire our and women are expected to behave, and these influence our personal gender identities of the world. In the case of gender schema these are constructs that tell us how men You know that a schema is a mental structure containing stored knowledge of an aspec

Bem's gender schema theory (GST)

On page 34 you learned about the Bem sex-role inventory (BSRI), a measure of how schema theory describes how we cognitively process gender-related information. masculine or feminine a person perceives themselves to be. Sandra Bem's (1981) gende

ipport transgender people

o are *transgender*. Language matters, and wwe refer to people is part of that Livyy Lidentifies and lives as female, and works to

learn that objects frequently have a gender (ships are feminine). As for jobs and roles – women are nurturing nurses, men are decisive doctors. women, most members grow up holding stereotyped views of gender. For example, we from their culture. Because some cultures make strong distinctions between men and Around the age of two years, children start to learn about schema related to gender

gender-stereotypical behaviour (e.g. a woman exhibiting masculine characteristics) their gender schema. Gender-schematic people are highly sensitive to deviations from Gender-schematic/aschematic Gender-schematic people have a strong gender schema behaviour is not especially gender-relevant. They also behave in ways consistent with and categorise other people's behaviour as 'masculine' or 'teminine', even when the Gender-aschematic people attach very little significance to gender, hardly noticing it in

adopt a variety of masculine- and feminine-type behaviours, i.e. be androgynous. more healthy to avoid fixed gender identities. Instead men and women should feel free to and feminine behaviours are two separate clusters. Bem argued – that it is psychological be both masculine and feminine. Traditionally people hold a binary view, that masculine Androgyny Bem designed the BSRI to measure androgyny, proposing that a person can

Martin and Halverson's (1987) gender schema theory

effect on memory and what we remember affects our gender schema and consequently Carol Martin and Charles Halverson suggested that gender schema has an important

gender schema. But she will ignore information about football. She can recall more about girls' but football is 'for boys' she will seek out information about dolls, adding it to her and recalled than inconsistent information. For instance, if a girl believes that dolls are 'for Information consistent with the child's schema is more likely to be stored in memory

roles the wrong way round and this misremembering confirms her previous schema. For instance, in recalling a story about a male nurse and a female doctor, she may get the gender schema (which at a young age is essentially made up of common stereotypes) Alternatively, her recall of gender-inconsistent information may be distorted to fit her

Non-binary A term that suggests gender (or any concept) cannot be divided into two distinct categories, e.g. gender is not a question of being one or the other (male or female).

and gender-appropriate behaviour in general related to gender that are derived from experience. Such Gender schema An organised set of beliefs and expectations

schemas guide a person's understanding of their own gende

Gender fluid Not having a fixed gender. the gender assigned to them at birth

Gender dysphoria A person feels dysphoria (discomfort) with

biological sex (the sex chromosomes are either XX or XY, see Gender The label of being male or female, as distinct from male or female

something can be either on or off, or a person can only be

Binary Describes a choice of two states, for example

Specification terms

Androgyny Displaying a balance of masculine and feminine

teristics in one's personality (ando = male and gyny =

their social interactions.

correspond with their birth sex. (Discussed on next spread.) Transgender Relating to a person whose gender does not

> the 1950s and 1960s was red, yellow and The version sold in overwhelmingly pink

is nowadays

Barbie's house



"FACTIVE The pinkification of girls

and shoes, make up, sports equipment, school equipment... There is even a range of pink Lego aimed at girls. If you take a walk along the aisles of any toy shop, you will notice it immediately. Girls' toys are overwhelmingly pink. So are girls' clothes,

it. This preference is unlikely to be innate. In the middle of the 19th century, the association was the other way round – pink was for boys and blue was for girls. Before then, it was white for both. There is a huge market for pink, because many girls appear to love or blue, with fewer in gender-neutral colours such as green and yellow. More broadly, products aimed at children are increasingly either pink

How might gender schema theory explain the apparent preference of young girls for the colour pink?

Evaluation

Explains rigidity of gender-related beliefs

and beliefs about gender are very fixed One strength is that GST can account for how it is that children's attitudes

their own gender. because it is more consistent with their schema especially if it is related to a woman portrayed in a TV drama as a teacher rather than as a surgeon) attention to information that confirms their gender schema (e.g. a girl seeing conflicts with their gender schema. At the same time they pay greater This is because children (and adults) tend to ignore information that

of ways in which young children think about gender This means that GST has explanatory power – it can explain a wide range

Neglects key non-cognitive factors

underplays the importance of social context One weakness is that GST exaggerates the role of cognitive factors and

(1981) did argue that the origins of the gender schema are cultural, but this is that are much better explained by social learning theory (see page 68). Bem the rewards and punishments they hand out to children are key influences he least well-developed aspect of her theory gender develops. For instance, the gender-related behaviour of parents and It is very likely that social factors are crucial in the early years during which

6ST is an incomplete explanation. This failure to address how social and cognitive factors interact means that

Narrow view of gender

of masculine and feminine characteristics (e.g. they are both assertive and nurturing). This is a narrow definition of 'non-binary' and not as flexible as third gender. Instead, someone who is androgynous merely has a mixture It is true that Bem (1981) added the concept of androgyny but this is not a This is clear from the theory's concepts of 'masculinity' and 'femininity'. Another weakness is that GST assumes that gender is binary

as complex, fluid and non-binary Therefore, GST is outdated and at odds with more recent views of gender

Evidence for effects on memory

distorted by a person's gender schema Another strength is that research supports the suggestion that memory is

With their schema (e.g. it was the boy chopping wood, not the girl).

This finding is just one from many research studies that support and girls behaving in ways that were either consistent or inconsistent with behaviour more accurately. When recalling gender-inconsistent images, the gender stereotypes (e.g. a boy playing with a truck, a girl chopping wood). children tended to change the details to make their recall more consistent When tested one week later, the children recalled the gender-consistent Martin and Halverson (1983) showed 5/6-year-old children images of boys

Predictions from GST, in this case that memories are distorted to fit with the

Exam-style questions

- Explain what is meant by the term 'gender'. (2)
- Explain how the cognitive approach accounts for gender behaviours. Use the concept of gender schema in your answer. (3)
- 3. Give three features of the cognitive approach that can explain
- 4. Explain one strength or one weakness of the cognitive approach to explaining gender. (3)
- 5. Leo and Maria are siblings. Leo loves pretending to be a round to Join in. sword which he uses to attack his sister. Maria enjoys playing helping them do household chores. She often has girlfriends quietly with dolls, changing their outfits, talking to them and superhero, running around the house shouting and waving a
- (a) Use one aspect of the cognitive approach to explain Leo's and/or Maria's behaviour. (2)
- (b) Discuss the view that gender is mainly the result of cognitive schema theory, and (ii) reference to Leo and Maria. (9) factors. In your answer you should consider: (i) gender

Specification content

Learners should understand key terms associated with gender, including binary, non-binary, gender fluid androgyny, transgender, masculinity, femininity, gender dysphoria. C3 Application of psychology to explain gender

Learners should understand and apply knowledge of how psychological concepts and research can be used to understand the typical and atypical gender of individuals

The influence of the following on gender Cognitive – role of biases and schema in gender

(gender schema theory)