

Unit 2 Language and thought Knowledge Organiser

Key terms		Language and thought		
Key Term	Definition	Piaget's theory	The Sapir-Whorf Hypothesis	Our view of the world
Schema	A mental framework of beliefs and expectations that influence cognitive processing. We are	We learn through developing schemas		
	born with some schemas but they develop in complexity with experience of the world.	(mental structures)	have no words for	1) Variations in recall of events
Sapir-Whorf	This theory believes that the language a person speaks has a great influence on the way they	(Native Americans: The Hopi
hypothesis	think and perceive. The weak version says that language affects what we perceive and	Language depends on thought — thought	Thinking depends on language – language comes	Hopi don't distinguish past, present and future,
,,	remember. The strong version says that language determines thought, and we are unable to			
	think about things we do not have the words for.	and understanding comes first, then	first, thought afterwards	which affects the way they think about time.
Animal	The exchange of information between animals within the same species using a variety of	language		
communication	signals. Some of these signals are vocal (involve sound) but some are visual or involve smell.		Strong version – language determines thought –	Language affects recall of events
Language	A communication system unique to humans. It consists of a set of arbitrary conventional		if you have no words for an object or idea then	Memory for pictures is affected by labels given
	symbols through which meaning is conveyed. These symbols can be combined in such a way	understanding but they will not be able to	you can't think about it	(Carmichael et al)
	that an infinite number of novel messages can be produced.	use it effectively		
Eye contact	When two people look at each other's eyes at the same time. Eye contact has a number of		Weak version – language influences thought –	Evaluation
,	roles in communication such as regulating the flow of conversation, signalling attraction and	Development of language	words helps to 'carve up' the world. You can still	Limited sample – only one individual from the
	expressing emotion.	Sensorimotor 0-2 years – children start to	· · · · · · · · · · · · · · · · · · ·	Hopi studied
Non-verbal	Exchanging information without using words. It includes eye contact and facial expression as	speak	mining in the manage with the worlds for them	Ambiguous materials — Carmichael's study not
communication	well as more general body language.	1 '	Which version is better? Weaker version is	reflective of everyday life because less ambiguity
Verbal	The use of words as a way of expressing your thoughts and how you feel.			reflective of everyday life because less diffulguity
communication	, , , , , , , , , , , , , , , , , ,	about things not present	preferred; we have limited memory for things	
Body language	The way in which attitudes and feelings are communicated to others through unspoken	Concrete operational 7-11years – children	we have no words for	
	movements and gestures.	develop their own ideas		2) Variations in recognition of colours
Closed posture	Having arms and / or legs crossed is a closed posture which suggests that the person is in			Native Americans: The Zuni
	disagreement with what is being said, r is possibly annoyed.	Evaluation	Evaluation	Zuni have only one word for shades of orange
Open posture	A relaxed posture (without arms and / or legs being crossed) is an open posture which	Supporting evidence – the order of	Differences are exaggerated – Inuit culture may	and yellow and in a research study, had difficulty
open postare	suggests someone is listening in a social interaction and is in agreement with what is being	children's two word phrases shows	have only two words for snow not twenty-seven,	distinguishing them
	said.	understanding	English has four	
Postural echo	A similarity or mirroring of body positions by people in a social interaction. Postural echo			Language affects recall of colour
	tends to suggest that two people are getting on well and are friendly towards each other.	Language comes first - Sapir-Whorf	Thoughts come before language – if there is lots	Berinmo people had difficulty recalling colours
Culture	Refers to the beliefs or expectations that surround us. We are not conscious of living in a	hypothesis challenges Piaget suggesting		as they only have five words for colour
Cuitare	culture, just as a fish is not aware that it lives in water, yet it powerfully influences us.	that sometimes language comes first	the environment	(Robertson et al)
Gender	A person's sense of male or femaleness, including attitudes and behaviour of that gender.	that sometimes language comes mist	the environment	(Nobeltson et al)
Personal space	An invisible portable 'bubble' that surrounds each individual. The size of the bubble depends	Color and the color of the colo	Building to deliberate design and the state of the state	
r croonar space	on who we are with.	•	Restricted and elaborated code – working-class	
Status	Relating to the social or professional position. For example, a headteacher may have a higher	measured	5 5	Difficulties with cross-cultural understanding –
Status	status than a normal teacher in a school.		their ability to think, explaining lowers	participants from other cultures may
Adaptive	Any physical or psychological characteristic that enhances an individual's survival and		intelligence (Bernstein)	misunderstand the task or fail to communicate
Adaptive	reproduction and is thus likely to be naturally selected. Such characteristics are passed on to			their answers correctly
	future generations.			
Evolutionary theory	Explains how species have adapted to their environment over millions of years. Behaviours			Opposite results – Dani people had no problem
Evolutionally theory	that increase chances of survival and most important, successful reproduction, are naturally			matching colour despite having only two words
	selected and passed onto the next generation.			for colour (Rosch and Oliver)
Innate	Literally means 'inborn', a product of genetic factors.			lor colour (noscir una onver)
Neonates	The name given to new born babies.			
Sensory deprived	Describes an anima or human who does not have a particular sensory ability, such as hearing			
Jensory acprived	or seeing.			
Emoticon	This word is a combination of 'emotion' and 'icon'. It is a non-verbal way of expressing mood			
	or emotion within written communication such as a text or an email.			
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Human and an	nimal communication	Non-verbal communication						
Von Frisch's bee study (key study)	Human versus animal communication	Eye contact	Body language	Personal space				
Changed the way scientists thought about animal		When two people look at each other's eyes at the	Communication through unspoken	The distance we keep between				
communication	Functions of animal communication	same time	movements and gestures	ourselves and others				
	Survival (enhances survival of the individual and the							
Aim – to describe the dances of honey bees to	group)	Function	Open and closed posture	Cultural differences				
understand their communication	Vocal sounds – Vervet monkeys communicate danger with	1)Regulate flow of conversation - participants	Closed – crossing arms/legs, shows	Sommer- English peoples personal				
	an alarm call	look away when they are about to speak and	disagreement	space is 1-1.5m whereas Arabs' is less				
Method – put food close to hive (10-20 metres) and	Visual signs – rabbits lift tail, pin ears back and leap	have prolonged gaze when they are about to	Open – uncrossed, shows acceptance	Arabs liked Englishmen better if they				
far away (up to 300 metres).	forward	finish	McGinley – arguments given by person	stood closer				
Observed bees 6000 times over 20 years			with open posture led to greater opinion					
Dec. II.	Reproduction	2)Signalling attraction	change then closed posture	Gender differences				
Results –	Peacocks stretch out their feathers like an umbrella to	People who use eye contact are judged as more	Book out out o	Fisher and Bryne – women feel most				
Round dance – moving in a circle to show pollen less	communicate genetic fitness	attractive	Postural echo	comfortable when personal space				
than 100 metres away	Torritory	2)Evarossing amotion	Copying each other's body position	invaded from the side, for men it is from the front				
Waggle dance – figure of eight shape points direction of food	Territory Rhinos leave piles of dung to communicate territorial	3)Expressing emotion Participants judged emotions as more intense if	Tanner and Chartrand – participants rated new drink more highly when					
60% of bees went to sources at the distance	boundaries	faces were looking straight at them	presented with postural echo	Status differences				
indicated by the dances	bouridaries	races were looking straight at them	presented with postural echo	Zahn – people with similar status				
indicated by the dances	Food		Touch	stand closer than those of unequal				
Conclusion – sophisticated communication system	Ants leave pheromone trail to communicate food source	Evaluation	Includes high fives, slapping etc	status				
от полития по полития по полития по	,	Real world application	Fisher – if librarian touched student on	333.53				
Evaluation		People with autism could be taught to increase	hand when returning books, the librarian	Evaluation				
Scientific value – opened eyes to capabilities of	Properties of human communications not present in	eye contact to improve social skills	was judged more positively	Real-world application				
animals	animal communication	, '		Useful in everyday life such as doctors				
	(in other words, how animal and human communication	Use of rating scales	Evaluation	using knowledge about cultural				
Sounds matter too – dances performed in silence	differs)	Rating attractiveness can lack objectivity	Real world application – people can use	differences				
ignored			body language to build good relationships					
	Plan ahead and discuss future events	Artificial studies		Over simplistic				
Other factors are important – bees do not respond	Humans can discuss things that are not present or haven't	Studies of eye contact involve artificial tasks	Body language studies lack control –	Research investigates one factor at a				
to waggle dance if they have to fly over water	happened yet (displacement)	which lack validity	could be other reasons (extraneous	time and not the interaction between				
	Animals are focussed on present e.g. food sources and		variables) why participants like or dislike	them				
	predators		confederates					
				Unrepresentative samples				
	Creativity		Body language studies are unethical -	Experiments use samples of people				
	Humans have an open system combining many words		lack of informed consent for being in field	who may not represent all men or all				
	together		experiments, lowers trust in psychologists	people within a culture				
	Animals have a closed system using communication for specific events							
	specific events							
	Single versus multiple channels							
	Human language expressed using many channels – spoken,							
	written, sign language, social media							
	Animals tend to communicate with a single channel e.g.							
	pheromones							
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Explanations of non-verbal behaviour

Evolutionary theory of non-verbal behaviour

Darwin and evolution

The theory of natural selection – genes for behaviours that promote survival are passed onto the next generation

Non-verbal communication as evolved and adaptive

NVC evolved in animals to express emotion

Baring teeth is adaptive as it reduces death in conflict and therefore protects the survival of the individual and the group

Comparisons with human behaviour

In our distant ancestors opening eyes widely was adaptive because they could see route to safety more easily. This behaviour has been passed down to humans and continues to express surprise.

Serviceable habits

Behaviours used by ancestors to promote survival. Still used by humans but may not serve same purpose

Evaluation

Research into facial expressions – Ekman found six emotions in all cultures, so must be innate

Research into newborns – babies are born with ability to use eye contact and smile which suggests these NVCs are innate and evolved

Cultural differences in NVC – cultural differences in NVC such as personal space mean evolutionary theory cannot explain all NVC

Non-verbal behaviour – innate or learned?

Evidence that NVC is innate

Neonate research

If NVCs displayed by newborn babies this suggests the behaviour is innate

Social releasers

Certain neonate behaviours (e.g. smiling) makes others want to provide care, therefore they are adaptive

Facial expressions

Neonates display an expression of disgust when given sour tastes (citric acid) suggesting it is innate

Sensory deprived

Thompson found blind children show similar facial expressions to sighted children – suggesting NVC is innate as they will not have been able to see someone displaying these signs

Evidence that NVC is learned

Cross-cultural research

Comparing behaviours from different cultures shows if they are learned

Contact versus non-contact cultures

Contact countries: Mediterranean and Latin American prefer smaller personal space

Non-contact cultures: UK and USA prefer larger space

Gestures

Pointing index finger is offensive in Hindu culture

Explaining cultural differences

Social learning theory – observe other people in your culture and imitate (people learn what gestures are ok)

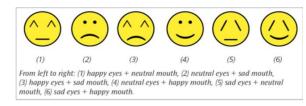
Yuki's study of emoticons (key study)

Comparing cultural understanding of non-verbal behaviours can show whether it is universal or learned

Aims – to find out if there is a difference in the interpretation of emoticons in Japan and America

Method – 6 emoticons shown with different combinations of eyes and mouths (sad, happy, neutral)

Participants rated faces in terms of happiness expressed on a 9 point rating scale



Results -

Japanese – higher happiness rating for happy eyes than Americans Americans – higher happiness rating when mouths were happy even with sad eyes

Conclusions – cultural differences in the way emotion is interpreted in facial expressions. Japanese may use eyes because cultural norms lead to hiding emotions but hard to control the expression from the eyes .

Evaluation

Artificial materials – emoticons leave out features such as wrinkle lines which may be important when judging emotion

However, follow up study found same results with real faces

Only tested one emotion

In everyday life faces express a range of emotions not just happy and sad

Using rating scales

Emotions are very complex and rating scales reduce emotions to a single score