Lecture 14 Cognitive Development

How du children learn? How do children learn ? Old idea : kids didn't know things but think like aduts, so give them knowledge them knowledge Actual : children think differently -> Struggle with space, scale, etc. All while as if normal -> sitting on super small small] They haven't learnet that yet. > Trying to get inside small car] Piaget - developmental psychogists to with great lecturer * Children 1:1 #1 * Children think fundamentally differently * They learn in phases viz. step by step Ly well there are linear learning of some other things. How 5-years old think 2 live demo on 2 children Child says: Child says : Same - bealuer liquid pour H smush more because +aller and thinner more $O_{\mathbf{k}}$ "mom knows it's M&Ms in there" can't understand why ppl not know something they know La Conservation tasks. « things we learn as adult - number - false belief - volume - class inclusion ~ can't understand subsets - mass

<u>Stage Baced Models</u> (its features)	quantitative
	e rather than <u>memorising</u> words
- Structured whole - each stage is either 0 or 1.	
- Invariant segence - same order	
- Universal sequence - people all go through these stages	
- Hierarchical integration - can always inderstand previous phase	
Phases according to Piaget - developed before neurosci imagine stuff.	
- Sensorimotor (<2 years old)	D There one alt
only inderstand objects through physical interaction	models if you
- Preoperational (2-7)	take Developmental
basic mental representation but no mental manipulation	Psych class
- Concrete operational (7-11)	
concrete manipulation but no abstraction	
- Formal operational (>11)	
abstract thinking	

#2 Develomental Methods

Infort challenges
they don't speak
short allention spom - they don't follow instructions - long term, ethical considerations Operationalisation
 Tend to suck when excited
 Track looking time * Habitmation - Attend to noval things - Get bored with repetition

Innateness debate #3 - Are these innate? - nouve physics - theory of mind - language - math ball, release Curtain table remove they look less I they staire at the trick △ But this doesn't isolate innateness - they could have learnt this -> Project Prakash - born with sth covering eyes, effectively blind for many years. Then do sungery, and ask questions. + turns out they can't map new vision to names look at _______ > says 2 objects they haven't learnt object recognition by what move together. La look at () -> says 3 objects perspective thinking Theory of mind #4 -> phone call : says " this " without realising the other side can't see - Appearance reality : works like rock but is sponge - Goal direction. -> Habituation studies P Bas -> B O same position, but baby surprised by grabbing different thing. Abrility to understand what others are thinking