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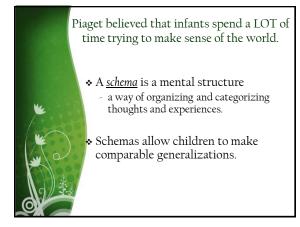
How does thought develop?

- Piaget's theory focuses on <u>how</u> people think rather than <u>what they think</u>.
- Piaget believed that children play an active role in their cognitive development.
 - Piaget's theories emphasized biology, which allow them to be applied to any culture

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Piagetian Stage Approach

- Piaget claimed that all children pass through a series of four universal stages:
 - Sensorimotor (birth to 2 years)
 - Preoperational (2 to 7 years)
 - Concrete operational (7 to 12 years)
 - Formal operational (12 years and beyond)



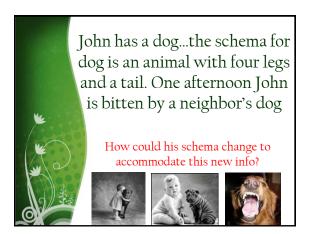
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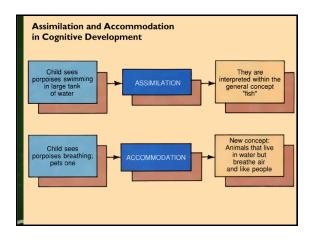
Schema

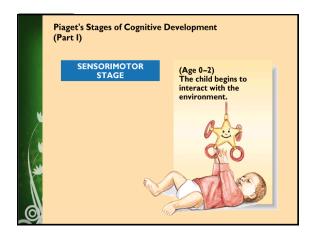
- Piaget believed that children develop and modify schema by two processes:
 - Assimilation
 - Accommodation

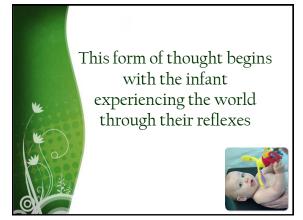
Assimilation incorporates new experiences into existing mental structures and behaviors
 Example: a baby who is familiar with grasping will soon discover that the grasping works for toys as well as blocks, balls, and other small objects.

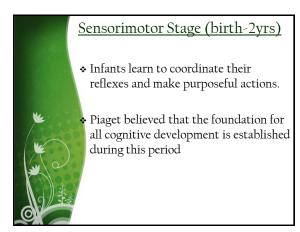
Wait...I changed my mind! * Accommodation occurs when a child's theories are modified based on an experience * Example- The baby with a schema of dogs is surprised the first time she sees a cat- it resembles a dog, but meows instead of barks and rubs up against her rather than licking The baby must REVISE her previous theory to include this new kind of animal





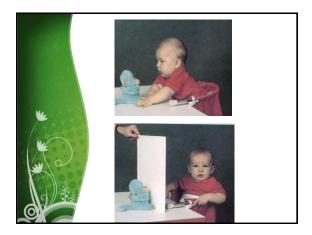




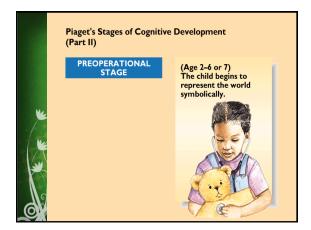








Out of Sight, Out of Mind... Object Permanence allows infants to now recognize that objects continue to exist even when they are out of sight. This usually develops around 8 months



Preoperational Period (2-7years)



- The period in which children become able to represent reality in language and symbolic thought
 - Words, gestures, pictures
- Children think about specifics rather than abstracts.

What games did you play at this age? Children play with objects in new ways and try to represent reality through symbolic thought, by playing "pretend"

Me, Me, Me.... A key element in this stage is egocentrism which is the inability to perceive a situation from another's point of view. Children in this stage: Cannot see your point of view Are not able to understand that the world does not exist to meet their needs.

Three-year-old Jamila loves talking to Grandma Powell on the telephone. When Grandma Powell asks a question, Jamila often replies by nodding her head. Jamila's dad has explained that Grandma Powell can't see her nodding, that she needs to say "yes" or "no." But, no luck. Jamila returns to head-nodding.

Is this Egocentric?

Does this ever change? * Yes...at the end of the stage, Decentration begins. Which is a change from a self-oriented view to recognizing the view of others.

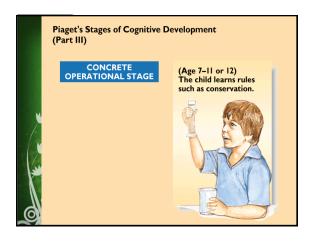
Name that Cognitive Milestone!

- A child in this stage saw a classmate crying and someone asked, "why is Marcus crying?" What cognitive milestone is the child displaying?
- * The child responds by saying, "I don't know...I'm OK."
- With the same scenario, a child responds, "Marcus is sad"

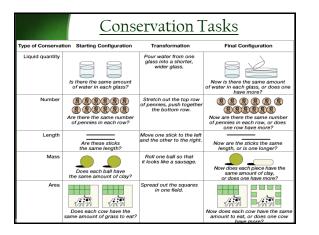
Preoperational thinking is *animistic*: the belief that all things are living

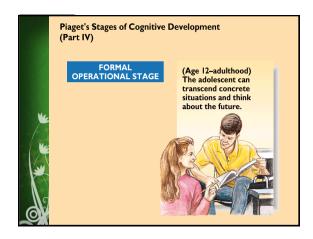
They believe that objects such as the sun, trees, and clouds have motives, feelings, and intentions

"dark clouds are angry"
"soap sinks because it is tired"



Concrete Operational Stage A milestone of this stage is understanding Conservation The recognition that objects can be transformed visually or physically, yet still be the same in number, weight, substance, or volume.





Formal Operational Stage 12+

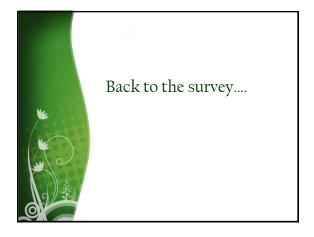
 In this stage, the individual can think hypothetically, consider future possibilities, and use deductive logic

Children understand that reality is not the only possibility

Capable of deductive reasoning and complex thought

The return of egocentrism!

- * Adolescents can display very logical thought, but are not known for this use.
- * Analyzing private thoughts and feelings reflect the enhanced capacity for self-centeredness, which characterizes this period of life.
 - You just don't understand ME!



What does your thinking say about you?

- * Concrete Operational Child (9-year-old)
 - All of these children placed their third eye on the forehead between their two natural eyes

Formal Operational Child (12-year-old)

- These children gave a wide variety of answers with imaginative rationales
- Some answered palm of the hand or inside the mouth and explained why.

