How Does Our Thinking Change With Age? Chapter 9-Cognitive Development

### CLASS OBJECTIVES:

-How does our thinking change as we develop?

-What are Piaget's 4 stages Cognitive Development?

It was once accepted that because babies cannot speak, then they must not think.

# How does thought develop?

Piaget's theory focuses on \_\_\_\_\_

Piaget believed that children play an in their cognitive

### development.

Piaget's theories emphasized biology, which allow them to be applied to any culture

### 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)

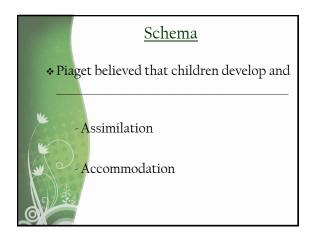
Formal operational (12 years and beyond)

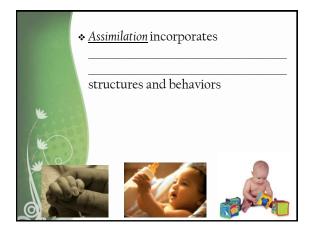
# Piaget believed that infants spend a LOT of time

♦ A <u>schema</u> is a \_

a way of organizing and \_\_\_\_\_ thoughts and experiences.

Schemas allow children to make comparable generalizations.

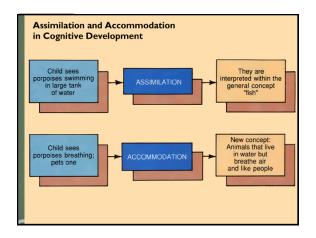




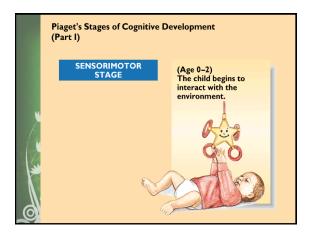
# Wait...I changed my mind!

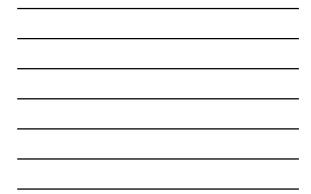
\* <u>Accommodation</u> occurs when a child's theories are \_\_\_\_\_

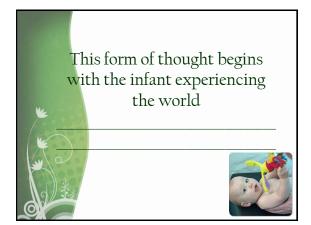
\* The baby must \_\_\_\_\_\_ her previous theory to include this new kind of animal







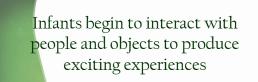




### <u>Sensorimotor Stage (birth-2yrs)</u>

- Infants learn to coordinate their reflexes and make purposeful actions.
- Piaget believed that the

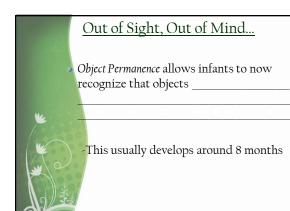
is established during this period

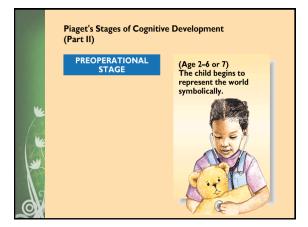


Realizing that a rattle makes noise-they shake their arms and laugh whenever someone puts a rattle in their hand











- The period in which children become able to represent reality in language and \_\_\_\_\_\_
  - 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" Image: Children play with objects in new ways and try to represent reality through symbolic thought, by playing "pretend" Image: Children play with objects in new ways and try to represent reality through symbolic thought, by playing "pretend" Image: Children play with objects in new ways and try to represent reality through symbolic thought, by playing "pretend"

# <u>Me, Me, Me....</u>

- Children in this stage:

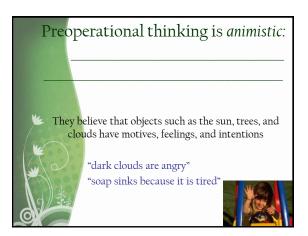
### Does this ever change?

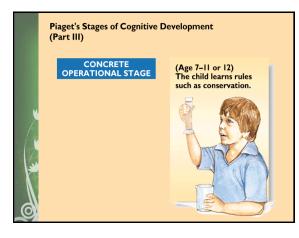
- ✤ Yes...at the end of the stage, <u>Decentration</u> begins.
  - Which is a change from a self-oriented view to recognizing the view of others.

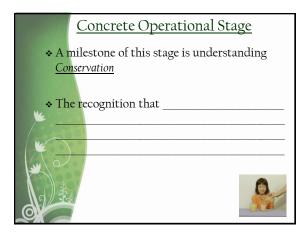
## Name that Cognitive Milestone!

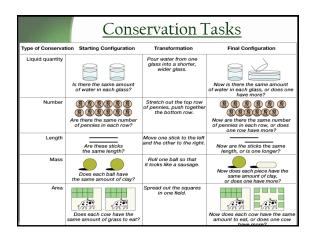
- A child in this stage saw a classmate crying and someone asked, "why is Marcus crying?" What cognitive milestone is the child displaying?
- The child responds by saying, "I don't know...I'm OK."

 With the same scenario, a child responds, "Marcus is sad"

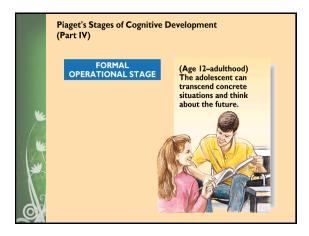














### Formal Operational Stage 12+

\* In this stage, the individual can think consider

future possibilities, and use deductive logic

Children understand that reality is not the only possibility



### 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 <u>self-centeredness</u>, which characterizes this period of life.

You just don't understand ME!

### What does your thinking say about you?

<u>Concrete Operational Child</u> (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.

