Myers' PSYCHOLOGY



Chapter 4 The Developing Person

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Prenatal Development and the Newborn



- Developmental Psychology
 - a branch of psychology that studies physical, cognitive and social change throughout the life span









Prenatal Development and the Newborn







Life is sexually transmitted

Prenatal Development and the Newborn

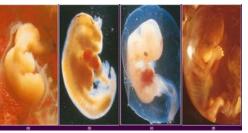


- Zygote
 - the fertilized egg
 - enters a 2 week period of rapid cell division
 - develops into an embryo
- Embryo
 - the developing human organism from 2 weeks through 2nd month
- Fetus
 - the developing human organism from 9 weeks after conception to birth

Prenatal Development and the Newborn



40 days 45 days 2 months 4 months



Prenatal Development and the Newborn



- Teratogens
 - agents, such as chemicals and viruses, that can reach the embryo or fetus during prenatal development and cause harm
- Fetal Alcohol Syndrome (FAS)
 - physical and cognitive abnormalities in children caused by a pregnant woman's heavy drinking
 - symptoms include misproportioned head

Prenatal Development and the Newborn



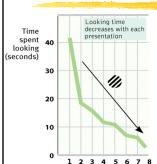
- Rooting Reflex
 - tendency to open mouth, and search for nipple when touched on the cheek
- Preferences
 - human voices and faces
 - facelike images-->
 - smell and sound of mother





Prenatal Development and the Newborn



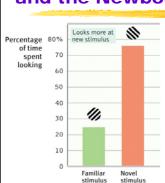


- Habituation
 - decreasing responsiveness with repeated stimulation

Prenatal Development and the Newborn

Presentation





Having
habituated to
the old
stimulus,
newborns
preferred
gazing at a
new one

Infancy and Childhood: **Physical Development**



- Maturation
 - biological growth processes that enable orderly changes in behavior
 - relatively uninfluenced by experience







Cortical Neurons

Infancy and Childhood: Physical Development





Babies only 3 months old can learn that kicking moves a mobile--and can retain that learning for a month (Rovee-Collier, 1989, 1997).

Infancy and Childhood: Cognitive Development



- Schema
 - a concept or framework that organizes and interprets information
- Assimilation
 - interpreting one's new experience in terms of one's existing schemas

Infancy and Childhood: Cognitive Development



- Accommodation
 - adapting one's current understandings (schemas) to incorporate new information
- Cognition
 - All the mental activities associated with thinking, knowing, remembering, and communicating

Piaget's Stages of Cognitive Development



Typical Age Range	Description of Stage	Developmental Phenomena
Birth to nearly 2 years	Sensorimotor Experiencing the world through senses and actions (looking, touching, mouthing)	Object permanence Stranger anxiety
About 2 to 6 years	Preoperational Representing things with words and images but lacking logical reasoning	Pretend play Egocentrism Language developmer
About 7 to 11 years	Concrete operational Thinking logically about concrete events; grasping concrete analogies and performing arithmetical operations	Conservation Mathematical transformations
About 12 through adulthood	Formal operational Abstract reasoning	Abstract logic Potential for moral reasoning

Infancy and Childhood: Cognitive Development



- Object Permanence
 - the awareness that things continue to exist even when not perceived







Infancy and Childhood: Cognitive Development

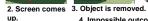


- Baby Mathematics
 - Shown a numerically impossible outcome, infants stare longer (Wynn, 1992)











4. Impossible outcome: Screen drops, revealing two objects.







- Conservation
 - the principle that properties such as mass, volume, and number remain the same despite changes in the forms of objects





Infancy and Childhood: Cognitive Development



- Egocentrism
 - the inability of the preoperational child to take another's point of view
- Theory of Mind
 - people's ideas about their own and others' mental states- about their feelings, perceptions, and thoughts and the behavior these might predict
- Autism
 - a disorder that appears in childhood
 - Marked by deficient communication, social interaction and understanding of others' states of mind

Social Development



- Stranger Anxiety
 - fear of strangers that infants commonly display
 - beginning by about 8 months of age
- Attachment
 - an emotional tie with another person
 - shown in young children by their seeking closeness to the caregiver and displaying distress on separation

Social Development





- Harlow's Surrogate Mother Experiments
 - Monkeys preferred contact with the comfortable cloth mother, even while feeding from the nourishing wire mother

Social Development



- Critical Period
 - an optimal period shortly after birth when an organism's exposure to certain stimuli or experiences produces proper development
- Imprinting
 - the process by which certain animals form attachments during a critical period very early in life

Social Development

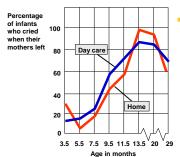




 Monkeys raised by artificial mothers were terror-stricken when placed in strange situations without their surrogate mothers.

Social Development





Groups of infants left by their mothers in a unfamiliar room (from Kagan, 1976).

Social Development

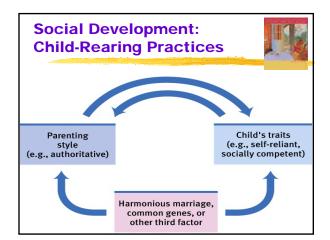


- Basic Trust (Erik Erikson)
 - a sense that the world is predictable and trustworthy
 - said to be formed during infancy by appropriate experiences with responsive caregivers
- Self-Concept
 - a sense of one's identity and personal worth

Social Development: Child- Rearing Practices



- Authoritarian
 - parents impose rules and expect obedience
 - "Don't interrupt." "Why? Because I said so."
- Permissive
 - submit to children's desires, make few demands, use little punishment
- Authoritative
 - both demanding and responsive
 - set rules, but explain reasons and encourage open discussion



Adolescence



- Adolescence
 - the transition period from childhood to adulthood
 - extending from puberty to independence
- Puberty
 - the period of sexual maturation
 - when a person becomes capable of reproduction

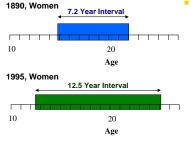
Adolescence



- Primary Sex Characteristics
 - body structures that make sexual reproduction possible
 - ovaries--female
 - testes--male
 - external genitalia
- Secondary Sex Characteristics
 - nonreproductive sexual characteristics
 - female--breast and hips
 - male--voice quality and body hair
- Menarche (meh-NAR-key)
 - first menstrual period

Adolescence

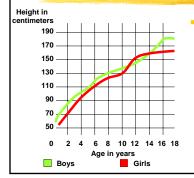




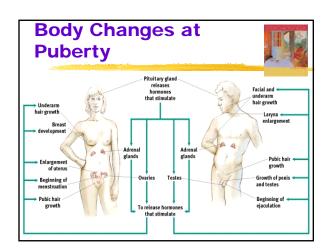
In the 1890's the average interval between a woman's menarche and marriage was about 7 years; now it is over 12 years

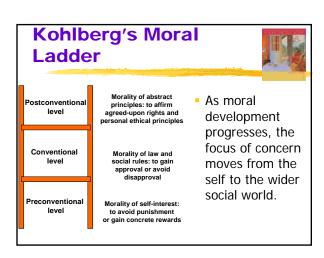
Adolescence





Throughout childhood, boys and girls are similar in height. At puberty, girls surge ahead briefly, but then boys overtake them at about age 14.







Erikson's Stages of **Psychosocial Development** Approximate **Description of Task** Teenagers work at refining a sense of self by testing roles and then integrating them to form a single identity, or they become Adolescence Identity vs. role confusion (teens into 20's) confused about who they are. Young adults struggle to form close relation-ships and to gain the capacity for intimate love, or they feel socially isolated. Young Adult (20's to early Intimacy vs. isolation 40's) Middle Adult Generativity vs. The middle-aged discover a sense of contri-(40's to 60's) stagnation buting to the world, usually through family and work, or they may feel a lack of purpose. Late Adult Integrity vs. When reflecting on his or her life, the older (late 60's and despair adult may feel a sense of satisfaction or

Adolescence: Social Development



- Identity
 - one's sense of self
 - the adolescent's task is to solidify a sense of self by testing and integrating various roles
- Intimacy
 - the ability to form close, loving relationships
 - a primary developmental task in late adolescence and early adulthood

Adolescence: Social Development The changing parent-child relationship Percent with positive, warm interaction with parents 100% 60 40 20 2 to 4 5 to 8 9 to 11 Ages of child in years

Adulthood: Physical Development

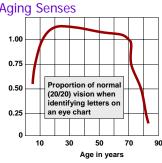


- Menopause
 - the time of natural cessation of menstruation
 - also refers to the biological changes a woman experiences as her ability to reproduce declines
- Alzheimer's Disease
 - a progressive and irreversible brain disorder
 - characterized by a gradual deterioration of memory, reasoning, language, and finally, physical functioning

Adulthood: Physical Development



The Aging Senses



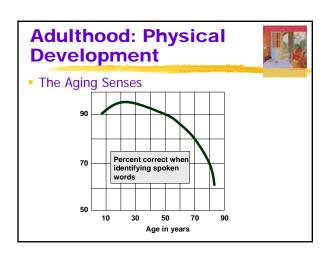
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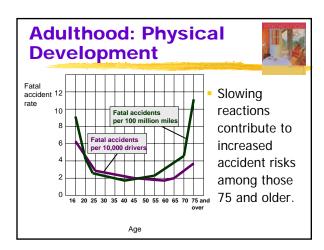


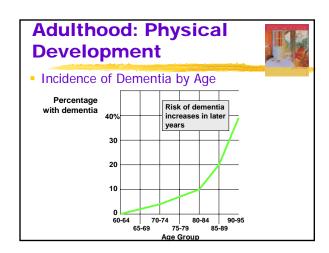
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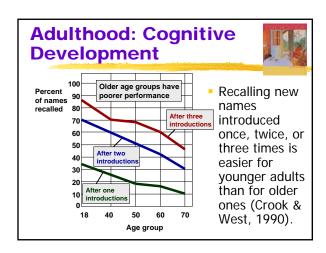


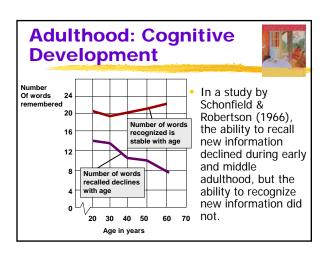
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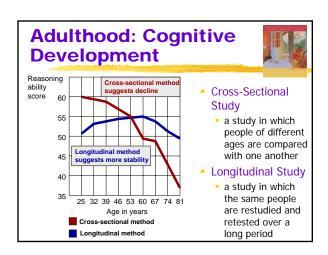


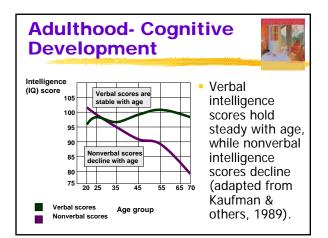












Adulthood: Cognitive Development



- Crystallized Intelligence
 - one's accumulated knowledge and verbal skills
 - tends to increase with age
- Fluid Intelligence
 - ones ability to reason speedily and abstractly
 - tends to decrease during late adulthood

Adulthood: Social Development - Early-forties midlife crisis? Emotional instability 24% No early 40s emotional crisis Females Males 0 33 36 39 42 45 48 51 54

Adulthood: Social Changes



- Social Clock
 - the culturally preferred timing of social events
 - marriage
 - parenthood
 - retirement

Adulthood: Social Changes Percentage "satisfied" with life as a whole of the satisfied of

