DEVELOPMENT IN MIDDLE	
CHILDHOOD	
PHYSICAL DEVELOPMENT	
Development occurs most in the first three years of life than any other period throughout development	
During middle childhood, it becomes slow and quite irregular	
At age 6, children generally weigh 45 pounds and are 3.5 feet tall	
Children continue to grow about 2 to 3 inches in height and 5 pounds in weight each year	
PHYSICAL GROWTH	
During infancy and early childhood, children grow from top to bottom (cephalocaudal). However, during middle childhood, we reverse in development—we grow from	
bottom to top In the early periods of development, we also grow proximodistal (from center outward). This development	
reverses during middle childhood Females accumulate more fat after the age of 8 (note, this accumulation continues throughout adolescence)	

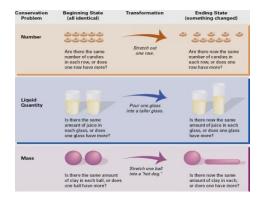
	SKELETAL DEVELOPMENT DURING MIDDLE CHILDHOOD	
	Bones grow longer and broader	
•	Replacement of primary (baby) teeth with permanent teeth	
	Between ages 6 and 12, all 20 primary teeth are replaced Children lose their 1 <sup>st</sup> at the end of early childhood. Girls lose their teeth earlier than boys	
•	The $1^{\text{st}}$ teeth to go are central incisors (lower and upper front teeth)	
	BRAIN DEVELOPMENT	
	BRAIN DEVELOPIVIENT	
_	Proin days law and the frontel labe increased in size and	
	Brain development-the frontal lobe increased in size and maturity. Responsible for thought and conscious Brain development is highly attributed to	
	neurotransmitters—chemicals that allow communication between neurons through synapses. Over time, they become more selective and efficient	
•	When neurotransmitters are not balanced, predisposed to epilepsy, ADHD, and emotional disturbances	
	HEALTH RELATED PROBLEMS	
	Infections/diseases are less prevalent in this period.	
	Except among those in poverty.	
	Some 25% are affected with myopia (nearsightedness)  27% of children suffer from obesity (leading to HB	
	pressure, cholesterol, diabetes, respiratory abnormalities, heart disease.	

FACTORS ASSOCIATED WITH CHILDHOD OBESITY	
<ul> <li>Heredity</li> <li>Social Class</li> <li>Early Growth Pattern</li> <li>Family Eating Habits</li> <li>Physical Activity</li> <li>Television Viewing—by the time a child reach high school, he has spent 25,000 hours watching TV</li> <li>Traumatic Events</li> <li>Type Personality (A or B)</li> </ul>	
Cognitive Development  Piaget Intelligence	
Piaget: Concrete Operational	
During this stage thought is logical, flexible, and organized in its application of concrete information.  The capacity for abstract thinking is not yet present.  The ability to execute conservation tasks is a clear indicator of this stage: Decentration and Reversibility  — Decentration ability to focus on several aspects of a problem at once  — Reversibility ability to mentally go through a series of steps in a	
problem and then reverse the direction, returning to the starting point.	

#### INFORMATION PROCESSING THEORY

- · Alternative view of cognitive theory
- Proposes that practice creates well organized cognitive schemes. Consequently, they demand less attention, become more automatic, and working memory is freed up (Berk, 1999; Case, 1998).
- This theory focuses on the dimensions of memory, attention, and thinking

#### Conservation



#### Definitions of Intelligence

#### 1-Psychometric Approach

IQ tests – focuses on how people perform on standardized tests which are designed to measure skills and knowledge you have already learned.

#### 2-Cognitive Approach

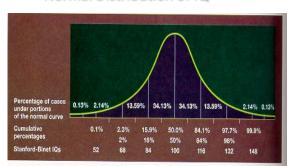
Intelligence comes in different ways and one test can't measure it all.

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### Measuring Intelligence – Psychometric Approach

- Standardized Intelligence Tests
  - Stanford-Binet
  - Wechsler Tests

## Normal Distribution of IQ



## Variations of IQ Scores

Range of Sc	ores	%	Description
130+	2%		Very superior
120 - 129		7%	Superior
110 -119		16%	High average
90 - 109		50%	Average
80 - 89		16%	Low average
70 - 79		7%	Borderline
70 & helow		2%	Deficient

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## Intelligence in Childhood

- Considerable variability in IQ across childhood
- Cumulative-deficit hypothesis
- IQ stabilizes during adolescence

# The Cognitive Approach Robert Sternberg – Triarchic Theory of Intelligence



Analytical intelligence (academic ability) Abilities to solve problems, compare and contrast, judge, evaluate, and criticize



Creative intelligence (creativity and insight) Abilities to invent, discover, suppose, or theorize



Practical intelligence ("street smarts") Abilities to adapt to the demands of one's environment, apply knowledge in practical situations

## Gardner's Theory of Multiple Intelligence



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ADHD	
5% of school age children are diagnosed with ADHD.	
Boys tend to be diagnosed with ADHD than girls.	
Children who are ADHD tend to be cognitively delayed on measures. Their ease of distractibility results in	
<ul><li>Forgetfulness</li><li>Poor Planning, reasoning, and problem-solving</li></ul>	
Poor impulse control	
Social/Emotional Development	
<ul><li>Peer Relations</li><li>Family Relations</li></ul>	
,	
FRIENDSHIPS AND PEER RELATIONS:	
The Childhood Years	
<ul> <li>Social contacts increase dramatically as children enter school</li> </ul>	
Larger peer group, less adult supervision	
<ul> <li>Main ingredients in forming friendships are opportunity and similarity</li> </ul>	
Number of "best friends" increases until	
about age 11 when children become more selective	

## FRIENDSHIPS AND PEER RELATIONS: The Preschool and Childhood

#### Years

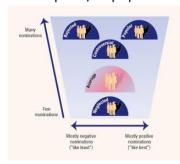


- Children's close friendships typically progress through three stages:
- 1. Play-based friends (ages 3 to 7 years)
- 2. Loyal and faithful friends (ages 8 to 11 years)
- Intimate friends (adolescence and beyond)

#### SOCIAL STATUS AMONG PEERS: Categories of Popular/Unpopular Children

- Peer nomination technique frequently used to measure social status in childhood
- Five categories typically result from peer nominations: popular, rejected, average, controversial, and neglected

## SOCIAL STATUS AMONG PEERS: Categories of Popular/Unpopular



SOCIAL STATUS AMONG PEERS:	
Categories of Popular/Unpopular Children	
Cilidieii	
<ul> <li>Category of rejected children includes two very different subtypes</li> </ul>	
<ul> <li>About 50% are considered rejected-aggressive, 20% rejected-withdrawn</li> </ul>	-
<ul> <li>Controversial children receive large number of both positive and negative nominations</li> </ul>	
<ul> <li>Associations between category and characteristics only correlational; don't know cause and effect</li> </ul>	
SOCIAL STATUS AMONG PEERS:	
Consequences of Peer Rejection	
Early negative social experiences may cause continuing	
problems in later years • Peer rejection associated with academic difficulties, higher	
rates of delinquency, arrest, violence, and substance abuse  Often implicated in school violence	
<ul> <li>Withdrawn children are at greater risk for depression, loneliness, negative self-worth</li> <li>Intervention programs helpful</li> </ul>	
merteneon programs neipidi	
Parent/Child Relationships	
Children spend about 50% less time with their parents than their	
preschool years  — Family support remains important as children practice their developing	
skills in society  — Optimal development occurs when parents employ structured autonomy.  Quality relationship (Authoritative) is correlated with	
<ul> <li>academic performance (positive)</li> <li>peer relationships (positive)</li> <li>befriending of delinquent peers (lower)</li> </ul>	
Aggression (lower)     conflict in the classroom (lower)	
<ul> <li>Because children model, parents teach competence through their actions</li> </ul>	

Family Constellations	
Over 50% of children born in 1990s experienced	
divorcing parents.  — African-American children are at a higher risk (Why?)	
<ul> <li>African-American children are at greater risk to becoming single parents (Why?)</li> </ul>	
Both African-American and Hispanic families are less likely to remarry after divorce	
<ul> <li>50% of children of divorce can expect to have step fathers within 4 years.</li> </ul>	
Family Constellations	
Most single parent families lack fathers	
<ul> <li>Some studies show:</li> <li>Greater atmosphere of warmth</li> </ul>	
- Increased mother interaction with children  - More secure mother/child attachments	
On the other hand:	
<ul> <li>These children tend to grow up feeling less cognitively and physically competent</li> </ul>	
Factors Associated With Divorce and Child	
Outcomes	
Quality of Interactions     Avast majority of children of divorce adjust well to the changing family arrangement     Quality of countries is not innerted than family arrangement.	
Quality of parenting is more important than family arrangement     Developmental Stage	
<ul> <li>Developmental Stage</li> <li>Preschoolers tend to display greater adjustment problems than middle schoolers (Why?)</li> <li>Remarriage is more likely to have a lasting psychological impact on preadolescents (Why?)</li> </ul>	
- Gender	
Boys tend to have a more difficult time adjusting to divorce in middle school (Why?)	
Boys are more likely to act out or externalize overtly. Girls are more likely to	