

Language Development	Cognitive/Language Development																					
<p>Prenatal through 1 year</p> <ul style="list-style-type: none"> <input type="checkbox"/> Newborns can distinguish the voices of their mothers from others because they have heard the mothers' voices prenatally <input type="checkbox"/> The earliest step in language development after birth is cooing or sounds made by the infant. <input type="checkbox"/> Babbling is the first sign of an infant's attempt at the language to be learned- the baby makes sounds inside the language system she/he is around. <p>18 months of age</p> <ul style="list-style-type: none"> <input type="checkbox"/> Infants use his/her first word <input type="checkbox"/> Vocabulary of 3 to 100 words <input type="checkbox"/> Overextension Errors: children may refer to all women as 'mama' <input type="checkbox"/> Underextension errors: children may use a general term too specifically <p>2 ½ years old to 3 years old</p> <ul style="list-style-type: none"> <input type="checkbox"/> Children about 2 ½ years old start to put words together (syntax) with using two words when they speak <input type="checkbox"/> At age 3 children can express themselves with 2 to 3 words to get across simple meanings, telegraphic speech. 	<p>Sensorimotor stage (Infancy)</p> <ul style="list-style-type: none"> ✓ In this period (which has 6 substages), intelligence is demonstrated through motor activity without the use of symbols. ✓ Knowledge of the world is limited because it is based on physical interactions/ experiences. ✓ Children acquire object permanence at about 7 months of age. ✓ Physical development (mobility) allows the child to begin developing new intellectual abilities. ✓ Some symbolic (language) abilities are developed at the end of this stage. <p>Pre-operational stage (Toddler and Early Childhood) 2 – 7 years</p> <ul style="list-style-type: none"> ✓ Intelligence demonstrated through the use of symbols, language use matures, and memory and imagination are developed. ✓ Thinking is done in a nonlogical, nonreversible manner. ✓ Egocentric thinking predominates. ✓ How things work: Logic of physical and social worlds. Can think about how things work in relatively complex ways. <ul style="list-style-type: none"> Classify: Video game characters. ✓ Self in the distant future: Essentially, self as a different person. <p>Concrete Operational Stage (7 - 12 years of age)</p> <ul style="list-style-type: none"> ✓ Involves applying logical operations to concrete problems, rather than abstract problems <table border="1" data-bbox="576 1240 1401 1312" style="margin-left: 20px;"> <tr> <td>Lack hypothetical thinking</td> <td>Conservation</td> </tr> <tr> <td>Needs physical evidence</td> <td>Reversibility</td> </tr> </table> <p>Conservation</p> <ul style="list-style-type: none"> ✓ The knowledge that quantity is unrelated to the arrangement and physical appearance of objects. <table border="1" data-bbox="576 1462 1471 1570" style="margin-left: 20px;"> <tr> <td>6 different types of conservation</td> <td>Number</td> <td>Area</td> </tr> <tr> <td>Substance</td> <td>Length</td> <td>Volume</td> </tr> <tr> <td></td> <td>Weight</td> <td></td> </tr> </table> <p>Reversibility</p> <ul style="list-style-type: none"> ✓ The notion that processes that transform a stimulus can be reversed returning it to its original form. This comes when concrete operational thinking is fully engaged. <table border="1" data-bbox="555 1733 1508 1839" style="margin-left: 20px;"> <tr> <td>Classroom Applications</td> <td>Math</td> <td rowspan="2">Physical/visual aids</td> </tr> <tr> <td>Manipulatives/Blocks</td> <td>Checking your work</td> </tr> <tr> <td>Social Studies</td> <td>English No "What would you do if..." questions</td> <td></td> </tr> </table>	Lack hypothetical thinking	Conservation	Needs physical evidence	Reversibility	6 different types of conservation	Number	Area	Substance	Length	Volume		Weight		Classroom Applications	Math	Physical/visual aids	Manipulatives/Blocks	Checking your work	Social Studies	English No "What would you do if..." questions	
Lack hypothetical thinking	Conservation																					
Needs physical evidence	Reversibility																					
6 different types of conservation	Number	Area																				
Substance	Length	Volume																				
	Weight																					
Classroom Applications	Math	Physical/visual aids																				
Manipulatives/Blocks	Checking your work																					
Social Studies	English No "What would you do if..." questions																					

Language Development	Cognitive/Language Development
<p><input type="checkbox"/> Vocabulary of a 3 year old is about 1,000 words when at 2 years old it is about 300 words.</p> <p>Basic Adult Structure-ages 4 and up</p> <p><input type="checkbox"/> Children start to speak in the manner of adults but it is less complex</p> <p><input type="checkbox"/> Children try to imitate what they hear, use what they already know and apply it</p> <p><input type="checkbox"/> By age 10, most children's language is similar to adults with their formal grammar still lacking</p>	<p>Formal operational stage (Adolescence and adulthood)</p> <ul style="list-style-type: none"> ✓ Intelligence is demonstrated through the logical manipulation of symbols related to abstract concepts. ✓ Early in this period there is a return to egocentric thought. ✓ Many adults never attain this stage. ✓ Can think about complex possibilities & alternatives ✓ Hypothetical/deductive reasoning ✓ Can ask "if...then..." about abstract things, like: <ul style="list-style-type: none"> ✓ variables ✓ complexities of relationships ✓ underlying values and ideologies ✓ self in the distant future <p>Scheme Organizing your understanding of trees into coniferous and deciduous.</p> <p>Assimilation A child I know believed the Earth is flat because the horizon is flat. When told that the Earth is round, she thought, "round and flat, like a disk."</p> <p>Accommodation My niece just learned that hymns are not "boys' songs" (hims).</p> <p>Equilibration Trying to remember someone's name when I can't (disequilibration), then suddenly remembering it (equilibration).</p>