

Mathematical Concepts Developmental Checklist
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Child's Name: _____ Teacher's Name: _____

School/Center Name: _____ Year: _____

Code: 1 = Needs Development 2 = Developing as Expected 3 = Advanced Development

Competencies and Objectives	Observations		
	Fall	Mid-Year	Spring
1. Develops an awareness of and uses number sense, numbers, and operations			
1.1 Develops number sense and awareness of numbers in the environment			
1.2 Applies one-to-one correspondence by counting concrete objects by ones to 10, 20, 25			
1.3 Matches quantities and numerals for 1-5, then 6-9			
1.4 Counts with understanding and recognizes <i>how many</i> in sets of objects			
1.5 Begins to compare numbers of concrete objects using language (e.g., <i>same, more than, less than</i>)			
1.6 Begins to identify concepts of a fraction <i>whole and half</i> by using real objects			
1.7 Begins to identify the position of objects in a series (e.g., <i>first, second, third, middle, next, last</i>)			
1.8 Begins to develop the ability to combine, separate, and name <i>how many</i> objects			
2. Develops an awareness of relations and patterns			
2.1 Begins to recognize, describe, reproduce, and extend simple patterns			
2.2 Matches, sorts, and classifies objects based on their similarities and differences			
3. Develops an awareness of and uses geometry and spatial reasoning			
3.1 Recognizes, names, describes, and compares two-dimensional shapes (e.g., <i>circle, square, rectangle, triangle</i>)			
3.2 Begins to recognize, name, and compare three-dimensional shapes (e.g., <i>cylinder, cube, cone, sphere</i>)			
3.3 Identifies positions of objects in space using language (e.g., <i>under, over, beside, behind, inside</i>) to describe and compare their relative positions			
4. Develops an awareness of and uses measurement			
4.1 Sorts and compares objects by size, length, weight, area, and temperature (e.g., <i>bigger/smaller, hotter/colder, longer/shorter, more than/less than</i>)			
4.2 Uses nonstandard measurement units (e.g., <i>units blocks, paper clips, hand span</i>)			
4.3 Uses common measuring instruments (e.g., <i>measuring cups, simple balance scales</i>)			
4.4 Begins to use time related words (e.g., <i>day/night, yesterday/today/tomorrow</i>)			

Competencies and Objectives	Observations		
	<i>Fall</i>	<i>Mid-Year</i>	<i>Spring</i>
5. Begins to analyze and interpret data			
5.1 Creates graphs using concrete objects or pictures			
5.2 Represents ideas or experiences using graphs			
5.3 Uses graphs to answer questions			