

Bravo! Math Scope and Sequence

The concepts and skills developed herein support the following internal assessment objectives: I/T # 9 Demonstrates basic fine motor skills; I/T#13 Shows beginning understanding that objects can be grouped, PS/PK #11 Uses number concepts and operations; PS/PK #12 Explores and describes spatial relationships and shapes; PS/PK#13 Compares and measures, and PS/PK #14 baselines data.

<div>←←←General Developmental Continuum→→</div>											
Primary Concepts	From Birth – 18 months, a child:	From 18 – 36 months, a child:	From 36 – 60 months, a child:								
<div>Children demonstrate knowledge of numbers and counting.</div> <table><tr><td>Numeracy</td><td>Counting</td></tr><tr><td>1:1 Correspondence</td><td>Quantity</td></tr></table>	Numeracy	Counting	1:1 Correspondence	Quantity	<div><div><div>1. Understands the concept of “more” in reference to food or play.</div><div>2. Uses gestures to request “more”.</div><div>3. Imitates rote counting using some names of numbers.</div></div></div>	<div><div><div>4. Counts to at least five from memory</div><div>5. Imitates counting rhymes or songs</div><div>6. Recognizes some quantities</div><div>7. Begins to quantify and make comparisons of quantity</div></div></div>	<div><div><div>8. Names some numerals</div><div>9. Recognizes that a single object is “one” regardless of size, shape, or other attributes</div><div>10. Understands that numbers represent quantity</div><div>11. Applies numbers and counting concepts to daily life</div><div>12. Differentiates some letters from numerals</div><div>13. Recognizes, names, and writes some numerals</div><div>14. Counts to at least 20 from memory</div><div>15. Counts at least five objects in one-to-one correspondence, without assistance</div><div>16. Begins to recognize and identify coins to count money</div><div>17. Uses numbers to predict and make realistic guesses</div><div>18. Tells what number comes before or after a given number up to ten</div></div></div>				
Numeracy	Counting										
1:1 Correspondence	Quantity										
<div>Children demonstrate knowledge of size, volume, height, weight, and length.</div> <table><tr><td>Size</td><td>Shape</td></tr><tr><td>Comparison</td><td>Volume</td></tr><tr><td>Length</td><td>Weight</td></tr><tr><td>Estimation</td><td>Sorting</td></tr></table>	Size	Shape	Comparison	Volume	Length	Weight	Estimation	Sorting	<div><div><div>1. Plays with toys and objects with different sizes and shapes</div><div>2. Nests smaller object inside larger one</div><div>3. Orders a few objects by size, with assistance</div></div></div>	<div><div><div>1. Uses size words, such as “many”, “big”, and “little”, appropriately</div><div>2. Fills and empties containers</div><div>3. Compares the size of various everyday objects</div><div>4. Identifies things that are big or small, heavy or light, and tall or short, with assistance</div><div>5. Looks at two objects and identifies which one is bigger or smaller</div><div>6. Explores measuring tools</div><div>7. Nests up to five cups</div></div></div>	<div><div><div>11. Uses activities that explore and develop vocabulary for length and weight</div><div>12. Uses measuring tools in play activities</div><div>13. Estimates size</div><div>14. Labels objects using size words</div></div></div>
Size	Shape										
Comparison	Volume										
Length	Weight										
Estimation	Sorting										
<div>Children identify and label shapes.</div> <table><tr><td>2-dimensional shapes</td><td>3-dimenstional shapes</td></tr><tr><td>Geometry</td><td>Ordering/Seriation</td></tr></table>	2-dimensional shapes	3-dimenstional shapes	Geometry	Ordering/Seriation	<div><div><div>1. Plays with shape toys, although often does not match them correctly</div></div></div>	<div><div><div>2. Matches simple two-dimensional shapes in form boards and puzzles</div><div>3. Identifies two geometric shapes</div><div>4. Creates and copies simple shapes made by others</div></div></div>	<div><div><div>5. Identifies and labels different kinds of two-dimensional shapes</div><div>6. Compares shape and size of objects</div><div>7. Creates, builds, or draws shapes</div><div>8. Recognizes non-geometrical shapes in nature</div><div>9. Orders shapes from smallest to largest</div></div></div>				
2-dimensional shapes	3-dimenstional shapes										
Geometry	Ordering/Seriation										
<div>Children sort, classify, and organize objects.</div> <table><tr><td>Colors</td><td>Shapes</td></tr><tr><td>Size</td><td>Sorting</td></tr><tr><td>Classification</td><td>Patterns</td></tr></table>	Colors	Shapes	Size	Sorting	Classification	Patterns	<div><div><div>1. Groups a few objects by color, shape, or size, with assistance</div><div>2. Helps clean up environment by putting materials away</div></div></div>	<div><div><div>3. Collects items that have common characteristics</div><div>4. Arranges objects in lines</div><div>5. Sorts objects by one characteristics</div><div>6. Recognizes objects arranged in series</div><div>7. Identifies categories of objects, with assistance</div></div></div>	<div><div><div>8. Orders several objects on the basis of one or more characteristics through trial and error</div><div>9. Creates own patterns with a variety of materials</div><div>10. Classifies everyday objects that go together</div><div>11. Places objects in specific position</div></div></div>		
Colors	Shapes										
Size	Sorting										
Classification	Patterns										