MARYLAND MATHEMATICS STATE CURRICULUM CORRELATED TO *MOVING WITH MATH PRIMARY CONNECTIONS PRE-KINDERGARTEN*

		Student Book	Skill Builders
	STANDARD 1: KNOWLEDGE OF ALGEBRA, PATTERNS, AND FUNCTIONS		
A.	**Patterns and Functions**		
2.	**Identify, copy, and extend non-numeric patterns**		
a.	Match patterns kinesthetically such as: clap/snap/clap...	62	
b.	Recognize simple patterns	62-67	4-1
c.	Represent simple repeating patterns using no more than 2 different objects, and different actions in the core of the pattern	63, 64	
d.	Continue a simple pattern	65-67	4-1, 4-2
e.	Create a simple pattern of 2 different objects when given the rule	63 (T.G.)	
f.	Identify patterns in real-world situations	61 (T.G.)	
B.	**Expressions, Equations, and Inequalities**		
2.	**Identify inequalities**		
a.	Explore relationships by comparing groups of no more than 5 objects to determine more or less	17, 19	28-1
	STANDARD 2: KNOWLEDGE OF GEOMETRY		
A.	**Plane Geometric Figures**		
1.	**Recognize and use the attributes of plane geometric figures**		
a.	Sort objects by one attribute such as: shape, color, size	3, 25 (T.G.)	
b.	Name the attributes of plane figures such as: shape, color, size	25-27	
c.	Match triangles, circles, and squares	23	15-1
d.	Identify triangles, circles, and squares in the environment	21 (T.G.)	15-2
B.	**Solid Geometric Figures**		

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1.	Recognize and use the attributes of solid geometric figures		
a.	Sort objects by one attribute such as: size, shape, weight, length	37	
b.	Find solid figures in the environment	37 (T.G.), 38	16-1, 16-2
E.	Transformations		
1.	Begin to recognize a transformation		
a.	Tell position by using words such as: over, under, above, on, next to, below, beside, behind	11	12-1
b.	Recognize a slide using concrete materials	71	15-4
	STANDARD 3: KNOWLEDGE OF MEASUREMENT		
A.	Measurement Units		
1.	Recognize and use measurement attributes		
a.	Demonstrate an understanding of comparative attributes such as: bigger, smaller, longer, shorter, lighter, heavier, shorter, taller, hotter, colder	82-86, 95-97	14-1, 20-2
b.	Compare and describe objects according to a single attribute	13, 29-31, 85	13-1
B.	Measurement Tools		
1.	Measure in non-standard units		
a.	Measure length of objects	87, 88	20-1
b.	Explore the capacity of containers	91-93	21-2
c.	Explore the weight of objects	95-98	21-3
	STANDARD 4: KNOWLEDGE OF STATISTICS		
A.	Data Displays		
1.	Explore and display data		
a.	Explore data by answering a yes/no question	158 (T.G.)	
b.	Display data on real graphs	24, 53	
c.	Display data on picture graphs	35	30-1
B.	Data Analysis		
1.	Analyze data		
a.	Talk about data from real graphs to answer a question such as: Which category has the most?	35, 53	30-1
	STANDARD 6: KNOWLEDGE OF NUMBER RELATIONSHIPS AND COMPUTATION/ARITHMETIC		

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A.	Knowledge of Number			
1.	Apply knowledge of whole numbers			
a.	Build concept of number	43-52		5-2, 5-4, 5-8
b.	Show an understanding of quantity	46, 48, 49		5-1, 5-3
c.	Construct relationships based on quantity	44		
d.	Use classroom experiences to indicate same, more, or less	44, 50		2-1, 3-1, 3-2
e.	Count and discuss quantity	46, 48		
f.	Use concrete materials to build sets 0 to 5	44-50, 58		
g.	Match a numeral to a set 0 to 5	57, 102		5-1, 5-6, 6-1
h.	Count to 10	111, 113		7-2, 7-3
I.	Use ordinal words to indicate position such as: first, next, last	59, 148		9-1, 9-2
	STANDARD 7: PROCESSES OF MATHEMATICS			
A.	Problem Solving			
1.	Apply a variety of concepts, processes, and skills to solve problems	144 (T.G.), 148 (T.G.)		29-1
a.	Identify the question in the problem			
b.	Decide if enough information is present to solve the problem			
c.	Make a plan to solve a problem			
d.	Apply a strategy, I.e., draw a picture, guess and check, finding a pattern, writing an equation			
e.	Select a strategy, I.e., draw a picture, guess and check, finding a pattern, writing an equation			
f.	Identify alternative ways to solve a problem			
g.	Show that a problem might have multiple solutions or no solution			
h.	Extend the solution of a problem to a new problem situation			
B.	Reasoning			
1.	Justify ideas or solutions with mathematical concepts or proofs	151 (T.G.)		
a.	Use inductive or deductive reasoning			
b.	Make or test generalizations			
c.	Support or refute mathematical statements or solutions			
d.	Use methods of proof, I.e., direct, indirect, paragraph, or contradiction			
C.	Communication			

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1.	Present mathematical ideas using words, symbols, visual displays, or technology	149 (T.G.)	
a.	Use multiple representations to express concepts or solutions		
b.	Express mathematical ideas orally		
c.	Explain mathematically ideas in written form		
d.	Express solutions using concrete materials		
e.	Express solutions using pictorial, tabular, graphical, or algebraic methods		
f.	Explain solutions in written form		
g.	Ask questions about mathematical ideas or problems		
h.	Give or use feedback to revise mathematical thinking		
D.	Connections		
1.	Relate or apply mathematics within the discipline, to other disciplines, and to life	5 (T.G.), 74 (T.G.), 90 (T.G.)	
a.	Identify mathematical concepts in relationship to other mathematical concepts		
b.	Identify mathematical concepts in relationship to other disciplines		
c.	Identify mathematical concepts in relationship to life		
d.	Use the relationship among mathematical concepts to learn other mathematical concepts		