

Grade K								
Chapter	Lesson	Title	Vocab	Animated Math Models	AMM Skill Number	iTools	Mega Math	PD Podcast
1	0	<b>Represent, Count, and Write Numbers 0 to 5</b>						
1	1	Hands On • Model and Count 1 and 2	one, two	Model, Read, and Write 1 and 2	1	[Counters; Count; Counters]		Number Sense: Grades K-2; 3. Conservation of Number
1	2	Count and Write 1 and 2		Model, Read, and Write 1 and 2	1	[Counters; Count; Counters]		
1	3	Hands On • Model and Count 3 and 4	three, four	Model, Read, and Write 3 and 4	2	[Counters; Count; Counters]		Number Sense: Grades K-2; 3. Conservation of Number
1	4	Count and Write 3 and 4		Model, Read, and Write 3 and 4	2	[Counters; Count; Counters]		
1	5	Hands On • Model and Count 5	five	Model, Read, and Write 5	3	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level A; Country Countdown, Harrison's Comparisons, Level A	Number Sense: Grades K-2; 3. Conservation of Number and 2. Principle of Cardinality
1	6	Count and Write 5		Model, Read, and Write 5	3	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level A; Country Countdown, Harrison's Comparisons, Level A	
1	7	Hands On: Algebra • Ways to Make 5	pairs, and			[Counters; Count; Counters]		
1	8	Hands On • Count and Order to 5	larger	Order Numbers to 5	7	[Counters; Count; Counters]		
1	9	Problem Solving • Understand 0	zero, fewer, more	Model, Read, and Write 0	4	[Counters; Count; Counters]	Country Countdown, Harrison's Comparisons, Level C	
1	10	Identify and Write 0		Model, Read, and Write 0	4	[Counters; Count; Counters]	Country Countdown, Harrison's Comparisons, Level C	
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2	0	<b>Compare Numbers to 5</b>						
2	1	Hands On • Same Number	same number, compare match	Same, One More, or One Fewer	5	[Counters; Compare; Counters]	Country Countdown, Counting Critters, Level A; Country Countdown, Harrison's Comparisons, Level A	Number Sense: Grades K-2; 1. One-to-One Correspondence; Algebraic Thinking Grades K-6; 4. Equalities and Inequalities
2	2	Hands On • Greater Than	greater more, compare	Same, One More, or One Fewer	5	[Counters; Compare; Counters]		Number Sense: Grades K-2; 4. The Power of Ten; Number Sense: Grades K-2; 1. One-to-One Correspondence

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2	3	Hands On • Less Than	less fewer, compare	Same, One More, or One Fewer	5	[Counters; Compare; Counters]		Number Sense: Grades K-2; 4. The Power of Ten; Number Sense: Grades K-2; 1. One-to-One Correspondence
2	4	Problem Solving • Compare by Matching Sets to 5	match, same number, greater, less, more, fewer, compare	Compare Numbers to 5	6	[Counters; Compare; Counters], [Algebra; Number Balance]		
2	5	Compare by Counting Sets to 5	compare, one, two, three, four, five	Compare Numbers to 5	6	[Counters; Compare; Counters], [Algebra; Number Balance]		
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3	0	<b>Represent, Count, and Write Numbers 6 to 9</b>						
3	1	Hands On • Model and Count 6	six	Model, Read, and Write 6	9	[Counters; Count; Counters]		Number Sense: Grades K-2; 2. Principle of Cardinality
3	2	Count and Write 6		Model, Read, and Write 6	9	[Counters; Count; Counters]		Number Sense: Grades K-2; 2. Principle of Cardinality
3	3	Hands On • Model and Count 7	seven	Model, Read, and Write 7	10	[Counters; Count; Counters]		Number Sense: Grades K-2; 2. Principle of Cardinality
3	4	Count and Write 7		Model, Read, and Write 7	10	[Counters; Count; Counters]		Number Sense: Grades K-2; 2. Principle of Cardinality
3	5	Hands On • Model and Count 8	eight	Model, Read, and Write 8	11	[Counters; Count; Counters]		Number Sense: Grades K-2; 2. Principle of Cardinality
3	6	Count and Write 8		Model, Read, and Write 8	11	[Counters; Count; Counters]		Number Sense: Grades K-2; 2. Principle of Cardinality
3	7	Hands On • Model and Count 9	nine	Model, Read, and Write 9	12	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level B; Country Countdown, Counting Critters, Level C	Number Sense: Grades K-2; 2. Principle of Cardinality
3	8	Count and Write 9		Model, Read, and Write 9	12	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level B; Country Countdown, Counting Critters, Level C	Number Sense: Grades K-2; 2. Principle of Cardinality
3	9	Problem Solving • Numbers to 9				[Counters; Count; Counters]	Country Countdown, Counting Critters, Level B; Country Countdown, Counting Critters, Level C	Number Sense: Grades K-2; 2. Principle of Cardinality
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4	0	<b>Represent and Compare Numbers to 10</b>						
4	1	Hands On • Model and Count 10	ten	Model, Read, and Write 10	13	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level B; Country Countdown, Counting Critters, Level C	Number Sense: Grades K-2; 2. Principle of Cardinality
4	2	Count and Write 10		Model, Read, and Write 10	13	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	Number Sense: Grades K-2; 4. The Power of Ten
4	3	Hands On: Algebra • Ways to Make 10		Ways to Make 10	14	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	Number Sense: Grades K-2; 4. The Power of Ten
4	4	Count and Order to 10		Count Forward to 10 and Count Backward from 10	15	[Number Line; Explore]	Country Countdown, Counting Critters, Level C	Number Sense: Grades K-2; 2. Principle of Cardinality
4	5	Problem Solving • Compare by Matching Sets to 10				[Counters; Compare; Counters]		
4	6	Compare by Counting Sets to 10				[Counters; Compare; Counters]		
4	7	Compare Two Numbers				[Counters; Compare; Counters]		
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5	0	<b>Addition</b>						
5	1	Addition: Add To	add					
5	2	Hands On • Addition: Put Together						The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition
5	3	Problem Solving • Act Out Addition Problems	is equal to			[Counters; Add; 2 Addends]		The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition
5	4	Hands On: Algebra • Model and Draw Addition Problems		Model Joining	16	[Counters; Add; 2 Addends]	Country Countdown, Block Busters, Level A	The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition
5	5	Algebra • Write Addition Sentences for 10		Ways to Make 10; Model Joining; Use Symbols to Add	14, 16, 17	[Counters; Add; 2 Addends]	Country Countdown, Counting Critters, Level G	The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition; Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities

5	6	Algebra • Write Addition Sentences		Model Joining; Use Symbols to Add	16, 17	[Counters; Add; 2 Addends]		The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition; Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities
5	7	Algebra • Write More Addition Sentences		Model Joining; Use Symbols to Add	16, 17	[Counters; Add; 2 Addends]	Country Countdown, Counting Critters, Level G	Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities
5	8	Hands On: Algebra • Number Pairs to 5		Model Joining; Use Symbols to Add	16, 17	[Counters; Add; 2 Addends]		The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition; Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities
5	9	Hands On: Algebra • Number Pairs for 6 and 7		Model Joining; Use Symbols to Add	16, 17	[Counters; Add; 2 Addends]		The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition; Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities
5	10	Hands On: Algebra • Number Pairs for 8		Model Joining; Use Symbols to Add	16, 17	[Counters; Add; 2 Addends]		The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition; Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities
5	11	Hands On: Algebra • Number Pairs for 9		Model Joining; Use Symbols to Add	16, 17	[Counters; Add; 2 Addends]		The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition; Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities
5	12	Hands On: Algebra • Number Pairs for 10		Ways to Make 10; Model Joining; Use Symbols to Add	14, 16, 17	[Counters; Add; 2 Addends]	Country Countdown, Counting Critters, Level G	The Meaning of Addition and Subtraction: Grades K-2; 2. Models of Addition; Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities
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6	0	<b>Subtraction</b>						
6	1	Subtraction: Take From				[Counters; Add]		
6	2	Hands On • Subtraction: Take Apart	minus					The Meaning of Addition and Subtraction: Grades K-2; 3. Models of Subtraction
6	3	Problem Solving • Act Out Subtraction Problems				[Counters; Subtract]		The Meaning of Addition and Subtraction: Grades K-2; 3. Models of Subtraction

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6	4	Hands On: Algebra • Model and Draw Subtraction Problems		Model Separating	19	[Counters; Subtract]	Country Countdown, Block Busters, Level B	The Meaning of Addition and Subtraction: Grades K-2; 3. Models of Subtraction
6	5	Algebra • Write Subtraction Sentences		Model Separating: Use Symbols to Subtract	19, 20	[Counters; Subtract]		The Meaning of Addition and Subtraction: Grades K-2; 3. Models of Subtraction; Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities
6	6	Algebra • Write More Subtraction Sentences		Use Symbols to Subtract	20	[Counters; Subtract]	Country Countdown, Counting Critters, Level H	Algebraic Thinking: Grades K-6; 4. Equalities and Inequalities
6	7	Hands On: Algebra • Addition and Subtraction		Write Addition and Subtraction Sentences	21	[Counters; Add]; [Counters; Subtract]	Numberopolis, Carnival Stories, Level A; Numberopolis, Carnival Stories, Level B	Algebraic Thinking: Grades K-6; 1. Representations and Translations
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7	0	<b>Represent, Count, and Write 11 to 19</b>						
7	1	Hands On • Model and Count 11 and 12	eleven, twelve, ones	Model, Read, and Write 11 and 12	22	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
7	2	Count and Write 11 and 12		Model, Read, and Write 11 and 12	22	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
7	3	Hands On • Model and Count 13 and 14	thirteen, fourteen	Model, Read, and Write 13 and 14	23	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
7	4	Count and Write 13 and 14		Model, Read, and Write 13 and 14	23	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
7	5	Hands On • Model, Count, and Write 15	fifteen	Model, Read, and Write 15	24	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
7	6	Problem Solving • Use Numbers to 15		Model, Read, and Write 15	24	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
7	7	Hands On • Model and Count 16 and 17	sixteen, seventeen	Model, Read, and Write 16 and 17	25	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
7	8	Count and Write 16 and 17		Model, Read, and Write 16 and 17	25	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
7	9	Hands On • Model and Count 18 and 19	eighteen, nineteen	Model, Read, and Write 18 and 19	26	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
7	10	Count and Write 18 and 19		Model, Read, and Write 18 and 19	26	[Counters; Count; Counters]	Country Countdown, Counting Critters, Level D	
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8	0	<b>Represent, Count, and Write 20 and Beyond</b>						
8	1	Hands On • Model and Count 20	twenty	Model, Read, and Write 20	27	[Counters; Count; Ten Frames]	Country Countdown, Counting Critters, Level D	The Meaning of Addition and Subtraction: Grades K-2; 1. Readiness for Addition and Subtraction
8	2	Count and Write 20		Model, Read, and Write 20	27	[Counters; Count; Ten Frames]	Country Countdown, Counting Critters, Level D	The Meaning of Addition and Subtraction: Grades K-2; 1. Readiness for Addition and Subtraction
8	3	Count and Order to 20		Count and Order Numbers to 20	28	[Counters; Count; Ten Frames]	Numberopolis, Cross Town Number Line, Level C	The Meaning of Addition and Subtraction: Grades K-2; 1. Readiness for Addition and Subtraction
8	4	Problem Solving • Compare Numbers to 20		Count Forward and Backward	29	[Counters; Compare; Ten frames]	Country Countdown, Counting Critters, Level D	The Meaning of Addition and Subtraction: Grades K-2; 1. Readiness for Addition and Subtraction
8	5	Count to 50 by Ones	fifty					The Meaning of Addition and Subtraction: Grades K-2; 1. Readiness for Addition and Subtraction
8	6	Count to 100 by Ones	one hundred	Count to 100	31	[Number Chart; Hundred Chart; Hundred Chart]		
8	7	Count to 100 by Tens	tens	Count to 100	31	[Number Chart; Hundred Chart; Hundred Chart]		Algebraic Thinking: Grades K-6; 1. Represent Patterns and Make Generalizations
8	8	Count by Tens		Count to 100	31	[Number Chart; Hundred Chart; Hundred Chart]		Algebraic Thinking: Grades K-6; 1. Represent Patterns and Make Generalizations
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9	0	<b>Identify and Describe Two-Dimensional Shapes</b>						
9	1	Identify and Name Circles	circle, two-dimensional shapes			[Geometry; Explore]	Shapes Ahoy! Ship Shapes, Level G	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	2	Describe Circles	curve			[Geometry; Plane Figures; Sides and Vertices ]	Shapes Ahoy! Ship Shapes, Level G; Shapes Ahoy! Ship Shapes, Level J	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	3	Identify and Name Squares	square			[Geometry; Explore]	Shapes Ahoy! Ship Shapes, Level G	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	4	Describe Squares	sides, vertex, vertices, corners.sides of equal length			[Geometry; Plane Figures; Sides and Vertices ]	Shapes Ahoy! Ship Shapes, Level G; Shapes Ahoy! Ship Shapes, Level J	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures

9	5	Identify and Name Triangles	triangle			[Geometry; Explore]	Shapes Ahoy! Ship Shapes, Level G	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	6	Describe Triangles				[Geometry; Plane Figures; Sides and Vertices ]	Shapes Ahoy! Ship Shapes, Level G; Shapes Ahoy! Ship Shapes, Level J	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	7	Identify and Name Rectangles	rectangle			[Geometry; Explore]	Shapes Ahoy! Ship Shapes, Level G	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	8	Describe Rectangles				[Geometry; Plane Figures; Sides and Vertices ]	Shapes Ahoy! Ship Shapes, Level G; Shapes Ahoy! Ship Shapes, Level J	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	9	Identify and Name Hexagons	hexagon			[Geometry; Explore]	Shapes Ahoy! Ship Shapes, Level I; Shapes Ahoy! Ship Shapes, Level J	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	10	Describe Hexagons				[Geometry; Plane Figures; Sides and Vertices ]	Shapes Ahoy! Ship Shapes, Level I; Shapes Ahoy! Ship Shapes, Level J	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	11	Hands On: Algebra • Compare Two- Dimensional Shapes	alike, different	Sort and Describe by Shape	33	[Counters; Explore; Sort]; [Geometry; Plane Figures; Sides and Vertices]	Shapes Ahoy! Sea Cave Sorting, Level K	Measurement and Geometry: Grades K-2, 2. Explore Plane Figures
9	12	Problem Solving • Draw to Join Shapes		Combine Plane Figures	(G1) 59		Shapes Ahoy! Ship Shapes, Level K	
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10	0	<b>Identify and Describe Three-Dimensional Shapes</b>						
10	1	Hands On • Three-Dimensional Shapes	flat surface, curved surface, roll, stack, slide			[Counters; Explore; Sort]; [Geometry; Explore]	Shapes Ahoy! Undersea 3D, Level G; Shapes Ahoy!, Sea Cave Sorting, Level I	Measurement and Geometry: Grades K-2, Segment 1. Explore Solid Figures
10	2	Hands On • Identify, Name, and Describe Spheres	sphere, three-dimensional shapes			[Geometry; Solid Figures; Faces, Edges, and Vertices]	Shapes Ahoy! Undersea 3D, Level A; Shapes Ahoy! Undersea 3D, Level C	Measurement and Geometry: Grades K-2, Segment 1. Explore Solid Figures
10	3	Hands On • Identify, Name, and Describe Cubes	cube			[Geometry; Solid Figures; View the Faces]	Shapes Ahoy! Undersea 3D, Level A; Shapes Ahoy! Undersea 3D, Level C	Measurement and Geometry: Grades K-2, Segment 1. Explore Solid Figures
10	4	Hands On • Identify, Name, and Describe Cylinders	cylinder			[Geometry; Solid Figures; View the Faces]	Shapes Ahoy! Undersea 3D, Level A; Shapes Ahoy! Undersea 3D, Level C	Measurement and Geometry: Grades K-2, Segment 1. Explore Solid Figures
10	5	Hands On • Identify, Name, and Describe Cones	cone			[Geometry; Solid Figures; View the Faces]	Shapes Ahoy! Undersea 3D, Level A; Shapes Ahoy! Undersea 3D, Level C	Measurement and Geometry: Grades K-2, Segment 1. Explore Solid Figures
10	6	Problem Solving • Two- and Three- Dimensional Shapes	flat, solid			[Geometry; Explore; Plane and Solid Figures]		

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10	7	Above and Below	above, below	Position Words	37			
10	8	Beside and Next To	beside, next to	Position Words	37	[Geometry; Solid Figures]		
10	9	In Front Of and Behind	in front of, behind					
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11	0	<b>Measurement</b>						
11	1	Hands On • Compare Lengths	longer than, shorter than, about the same length	Compare Lengths	43	[Counters; Compare; Counters]	Shapes Ahoy! Made to Measure, Level A	Algebraic Thinking: Grades K-6, Segment 6. Analyze and Represent Change; Measurement and Geometry Grades: K- 2, Segment, 5. Explore Length
11	2	Hands On • Compare Heights	shorter	Compare Heights	46	[Counters; Compare; Counters]		Algebraic Thinking: Grades K-6, Segment 6. Analyze and Represent Change; Measurement and Geometry Grades: K- 2, Segment, 5. Explore Length
11	3	Problem Solving • Direct Comparison						
11	4	Hands On • Compare Weights	heavier than, lighter than, about the same weight	Compare and Order Weights	47		Country Countdown, Harrison's Comparisons, Level E; Country Countdown, Harrison's Comparisons, Level F	
11	5	Length, Height, and Weight	heavier, lighter, longer, taller, shorter					Algebraic Thinking: Grades K-6, Segment 6. Analyze and Represent Change; Measurement and Geometry Grades: K- 2, Segment, 5. Explore Length
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12	0	<b>Classify and Sort Data</b>						
12	1	Hands On: Algebra • Classify and Count by Color	color, red, blue, green, yellow, classify, category	Sort and Describe by Color	32	[Counters; Explore; Sort]	Shapes Ahoy!, Sea Cave Sorting, Level A	
12	2	Hands On: Algebra • Classify and Count by Shape	shape	Sort and Describe by Shape	33	[Counters; Explore; Sort]; [Geometry; Explore]	Shapes Ahoy! Sea Cave Sorting, Level A	Measurement and Geometry: Grades K-2, Segment 2. Explore Plane Figures
12	3	Hands On: Algebra • Classify and Count by Size	size, small, big	Sort and Describe by Size	34	[Counters; Explore; Sort]	Shapes Ahoy! Sea Cave Sorting, Level B	



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12	4	Hands On • Make a Concrete Graph	graph	Make and Read Picture Graphs	35	[Graphs; Picture Graphs]	Country Countdown, White Water Graphing, Level B
12	5	Read a Graph		Make and Read Picture Graphs	35	[Graphs; Picture Graphs]	Country Countdown, White Water Graphing, Level B
12	6	Problem Solving • Sort and Count				[Counters; Explore; Sort]	Shapes Ahoy!, Sea Cave Sorting, Level A