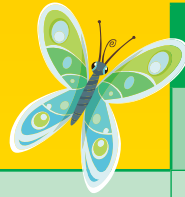




## KINDERGARTEN



Standard Areas	Strands	Learning Objectives The learner will ...	Codes	Mathseeds Lesson			Additional Mathseeds Resources	
				Knowledge and Skills Online Lesson, Printable Resources, & Problem Solving Tasks	Assessment End-of-lesson Quiz	Higher Order Thinking Skills Critical Thinking and Problem Solving Interactives	Fluency Driving Tests (DT) Mental Minute (MM)	Assessment Printable Achievement Standards Assessment
Numbers and Operations	Counting and Cardinality	Know number names and write and recite the count sequence.	CC.2.1.K.A.1	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 25, 28, 31, 33, 41, 43, 45, 46, 48, 50	19		DT Early Number 2, 4, 5, 9, 10, 13, 16, 17, 21, 23	Kindergarten Number Test 1
		Apply one-to-one correspondence to count the number of objects.	CC.2.1.K.A.2	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 20, 25, 28, 31, 41, 43, 45, 46, 50	12, 19, 41, 43		DT Early Number 1, 3, 7, 14, 15, 18, 22	Kindergarten Number Test 2
		Apply the concept of magnitude to compare numbers and quantities.	CC.2.1.K.A.3	22, 31, 41, 43, 45, 46, 50	41		DT Early Number 6, 8, 9, 19, 20	Kindergarten Number Test 3
	Numbers and Operations in Base Ten	Use place value to compose and decompose numbers within 19.	CC.2.1.K.B.1	41, 43, 45, 46, 50	41, 43		DT Early Number 11, 12	Kindergarten Number Test 4
Algebraic Concepts	Operations and Algebraic Thinking	Extend concepts of putting together and taking apart to add and subtract within 10.	CC.2.2.K.A.1	24, 30, 32, 34, 36, 40, 47, 49		12, 19, 30, 34, 36, 40, 41, 43, 47	DT Early Operations 1-7, 9-20, 22-25 MM Addition Sprints MM Subtraction Sprints	Kindergarten Operations Tests 1, 2, 3, 4
Geometry	Geometry	Identify and describe two- and three-dimensional shapes.	CC.2.3.K.A.1	4, 6, 9, 15, 23, 27, 35, 37, 44		6, 15, 23	DT Early Geometry 1-3, 5, 6, 8, 15, 16, 21-23	Kindergarten Geometry Tests 1, 2
		Analyze, compare, create, and compose two- and three-dimensional shapes.	CC.2.3.K.A.2	4, 6, 9, 15, 23, 27, 35, 37, 44			DT Early Geometry 4, 7, 12, 17-20	Kindergarten Geometry Tests 3, 4
Measurement, Data, and Probability	Measurement and Data	Describe and compare attributes of length, area, weight, and capacity of everyday objects.	CC.2.4.K.A.1	13, 26, 29, 38, 59, 73, 89			DT Early Measurement 1-20	Kindergarten Measurement Tests 1, 2, 4
		Classify objects and count the number of objects in each category.	CC.2.4.K.A.4	8, 23		6, 8, 15, 23, 27	DT Early Data 1-10	Kindergarten Data Test 1



# Mathseeds Lessons and Pennsylvania's Core Standards for Mathematics



## GRADE 1



Standard Areas	Strands	Learning Objectives The learner will ...	Codes	Mathseeds Lesson			Additional Mathseeds Resources	
				Knowledge and Skills Online Lesson, Printable Resources, & Problem Solving Tasks	Assessment End-of-lesson Quiz	Higher Order Thinking Skills Critical Thinking and Problem Solving Interactives	Fluency Driving Tests (DT) Mental Minute (MM)	Assessment Printable Achievement Standards Assessment
Numbers and Operations	Numbers and Operations in Base Ten	Extend the counting sequence to read and write numerals to represent objects.	CC.2.1.1.B.1	56, 60, 63, 67, 75, 77, 79, 81, 86, 90		60, 63, 79, 80, 88	DT Grade 1 Number 1-4, 6, 8, 11-16, 21-23	Grade 1 Number and Algebra: Whole Numbers Tests 1-9 Grade 1 Number and Algebra: Patterns Tests 1, 4, 6, 7
		Use place value concepts to represent amounts of tens and ones and to compare two digit numbers.	CC.2.1.1.B.2	60, 67, 75, 81, 86, 88		60, 67, 80, 83, 88	DT Grade 1 Number 5, 7, 9, 10, 17-20, 24	Grade 1 Number and Algebra: Place Value Tests 1-4
		Use place value concepts and properties of operations to add and subtract within 100.	CC.2.1.1.B.3	68, 85, 93, 95, 96, 98, 100		91, 96	DT Grade 1 Operations 1-15, 17-20 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Place Value Tests 1, 2, 3, 6
Algebraic Concepts	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction within 20.	CC.2.2.1.A.1	51, 53, 58, 65, 72, 91, 92		51, 53, 56, 65, 68, 77, 83, 91, 93, 96		Grade 1 Number and Algebra: Operations Test 4
		Understand and apply properties of operations and the relationship between addition and subtraction.	CC.2.2.1.A.2	76, 88, 93, 100		68, 93	DT Grade 1 Operations 16 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Place Value Tests 5, 6 Grade 1 Number and Algebra: Operations Test 5
Geometry	Geometry	Compose and distinguish between two- and three-dimensional shapes based on their attributes.	CC.2.3.1.A.1	52, 62, 69, 99		59, 69	DT Grade 1 Geometry 1-3, 6-10, 13, 17-19	Grade 1 Geometry: Shape Tests 1-7
		Use the understanding of fractions to partition shapes into halves and quarters.	CC.2.3.1.A.2	61, 66			DT Grade 1 Patterns & Fractions 3, 5, 6, 11, 13, 14	Grade 1 Number and Algebra: Fractions & Money Tests 1, 2
Measurement, Data, and Probability	Measurement and Data	Order lengths and measure them both indirectly and by repeating length units.	CC.2.4.1.A.1	55, 84			DT Grade 1 Measurement 2, 4, 13, 14	Grade 1 Measurement: Length Tests 1-5
		Tell and write time to the nearest half hour using both analog and digital clocks.	CC.2.4.1.A.2	39, 42, 54, 70, 87		87	DT Grade 1 Measurement 1, 8-10, 15, 16	Grade 1 Measurement: Time Tests 1-5
		Represent and interpret data using tables/charts.	CC.2.4.1.A.4	80, 97		80	DT Grade 1 Data 1-3, 6, 9, 10, 12, 13, 14, 15	Grade 1 Statistics: Data Tests 2, 3, 4





# Mathseeds Lessons and Pennsylvania's Core Standards for Mathematics



## GRADE 2



Standard Areas	Strands	Learning Objectives The learner will ...	Codes	Mathseeds Lesson			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
				Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
Numbers and Operations	Numbers and Operations in Base Ten	Use place value concepts to represent amounts of tens and ones and to compare three digit numbers.	CC.2.1.2.B.1	101, 105, 122		105	DT Grade 2 Number 1, 4, 5, 7, 11, 14-16, 21, 22	Grade 2 Number and Algebra: Numbers to 1000 Tests 2, 5, 7
		Use place value concepts to read, write, and skip count to 1000.	CC.2.1.2.B.2	101, 105, 106, 117, 129		105, 112, 132, 133	DT Grade 2 Number 2, 3, 6, 8-10, 12, 13, 17-20, 23, 24 DT Grade 2 Patterns & Fractions 1-4, 6-10, 13	Grade 2 Number and Algebra: Numbers to 1000 Tests 1, 3, 4, 8 Grade 2 Number and Algebra: Number Patterns Tests 1-7
		Use place value understanding and properties of operations to add and subtract within 1000.	CC.2.1.2.B.3	128, 134, 144, 146, 148		134, 144, 146	DT Grade 2 Operations 18, 21, 24-28 MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Tests 7, 8
Algebraic Concepts	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction within 100.	CC.2.2.2.A.1	103, 108, 110, 111, 113, 118, 120, 124, 128, 131, 133, 134, 137, 139, 148, 150		112, 118, 124, 125, 128, 132, 133, 134, 136, 139, 144, 146, 147, 150	DT Grade 2 Operations 7, 13-17, 20, 22, 23 MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Tests 2-6, 9
		Use mental strategies to add and subtract within 20.	CC.2.2.2.A.2	142			DT Grade 2 Operations 1-5 MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Test 1
		Work with equal groups of objects to gain foundations for multiplication.	CC.2.2.2.A.3	71, 74, 111, 113, 115, 130		113, 130, 136	DT Grade 2 Operations 6, 8-12, 19	Grade 2 Number and Algebra: Numbers to 1000 Test 6
Geometry	Geometry	Analyze and draw two- and three-dimensional shapes having specified attributes.	CC.2.3.2.A.1	102, 119, 121, 145		102, 119, 121, 140	DT Grade 2 Geometry 3-7, 10	Grade 2 Geometry: Shape Tests 1-5
		Use the understanding of fractions to partition shapes into halves, quarters, and thirds.	CC.2.3.2.A.2	132			DT Grade 2 Patterns & Fractions 5, 11, 12, 14-17	Grade 2 Number and Algebra: Fractions and Money Tests 1-3
Measurement, Data, and Probability	Measurement and Data	Measure and estimate lengths in standard units using appropriate tools.	CC.2.4.2.A.1	104, 126, 143			DT Grade 2 Measurement 6, 9, 11, 13, 15, 19, 21-24	Grade 2 Measurement: Length Tests 1-7
		Tell and write time to the nearest five minutes using both analog and digital clocks.	CC.2.4.2.A.2	109, 114, 123, 127			DT Grade 2 Measurement 1-5, 7, 10, 14, 16, 20	Grade 2 Measurement: Time Tests 1-4, 6
		Solve problems and make change using coins and paper currency with appropriate symbols.	CC.2.4.2.A.3	64, 83, 125, 147		125, 147	DT Grade 2 Measurement 12	Grade 2 Number and Algebra: Fractions and Money Tests 4-7
		Represent and interpret data using line plots, picture graphs, and bar graphs.	CC.2.4.2.A.4	143			DT Grade 2 Data & Chance 1, 4, 5, 7-14	Grade 2 Statistics: Data Tests 1-5
		Extend the concepts of addition and subtraction to problems involving length.	CC.2.4.2.A.6	141				Grade 2 Measurement: Length Test 8



# Mathseeds Lessons and Pennsylvania's Core Standards for Mathematics



## GRADE 3



Standard Areas	Strands	Learning Objectives The learner will ...	Codes	Mathseeds Lesson			Additional Mathseeds Resources
				Knowledge and Skills Online Lesson, Printable Resources, & Problem Solving Tasks	Assessment End-of-lesson Quiz	Higher Order Thinking Skills Critical Thinking and Problem Solving Interactives	Fluency Mental Minute (MM)
<b>Numbers and Operations</b>	Numbers and Operations in Base Ten	Apply place value understanding and properties of operations to perform multi-digit arithmetic.	CC.2.1.3.B.1	151, 156, 161, 194		153, 161, 194, 199	
	Numbers and Operations – Fractions	Explore and develop an understanding of fractions as numbers.	CC.2.1.3.C.1	138, 160, 175, 180, 191, 197		175, 180, 191, 197	
<b>Algebraic Concepts</b>	Operations and Algebraic Thinking	Represent and solve problems involving multiplication and division.	CC.2.2.3.A.1	193			
		Understand properties of multiplication and the relationship between multiplication and division.	CC.2.2.3.A.2	136, 155, 158, 165, 171, 176, 181, 186		153, 168, 176, 181, 186, 188, 196	
		Demonstrate multiplication and division fluency.	CC.2.2.3.A.3	155, 158, 165, 171, 176, 196, 199		186, 188, 193, 199	<b>MM</b> Multiplication Sprints <b>MM</b> Division Sprints
		Solve problems involving the four operations, and identify and explain patterns in arithmetic.	CC.2.2.3.A.4	153, 155, 158, 163, 165, 166, 168, 170, 173, 178, 183, 186, 188, 190, 193, 195, 196		154, 159, 163, 170, 172, 178, 182, 183, 188, 193, 194, 195, 196, 199	<b>MM</b> Addition Sprints <b>MM</b> Subtraction Sprints
<b>Geometry</b>	Geometry	Identify, compare, and classify shapes and their attributes.	CC.2.3.3.A.1	152, 169, 177, 184			
		Use the understanding of fractions to partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole.	CC.2.3.3.A.2				
<b>Measurement, Data, and Probability</b>	Measurement and Data	Solve problems involving measurement and estimation of temperature, liquid volume, mass or length.	CC.2.4.3.A.1	116, 135, 154, 172, 182, 198		154, 172	
		Tell and write time to the nearest minute and solve problems by calculating time intervals.	CC.2.4.3.A.2	162, 179, 185, 189			
		Solve problems and make change involving money using a combination of coins and bills.	CC.2.4.3.A.3	159			
		Represent and interpret data using tally charts, tables, pictographs, line plots, and bar graphs.	CC.2.4.3.A.4	174, 187, 192			
		Determine the area of a rectangle and apply the concept to multiplication and to addition.	CC.2.4.3.A.5	112, 149, 157, 200			
		Solve problems involving perimeters of polygons and distinguish between linear and area measures.	CC.2.4.3.A.6	192			

