

Standards Plus High Impact Standards – Mathematics – Grade 3

Domain	Lesson	Focus	Digital Lesson #	Standard(s)	
Operations and Algebraic Thinking	1	Products of Whole Numbers	1	3.OA.1 Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each. <i>For example, describe a context in which a total number of objects can be expressed as 5×7.</i>	
	2	Products of Whole Numbers	2		
	3	Products of Whole Numbers	3		
	4	Products of Whole Numbers	4		
	A1	Assessment - Products of Whole Numbers	A1		
	5	Quotients of Whole Numbers	5	3.OA.2 Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. <i>For example, describe a context in which a number of shares or a number of groups can be expressed as $56 \div 8$.</i>	
	6	Quotients of Whole Numbers	6		
	7	Quotients of Whole Numbers	7		
	8	Quotients of Whole Numbers	8		
	A2	Assessment - Quotients of Whole Numbers	A2		
	9	Representing Word Problems	9	3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	
	10	Representing Word Problems	10		
	11	Representing Word Problems	11		
	12	Representing Word Problems	12		
	A3	Assessment - Representing Word Problems	A3		
	13	Relating Three Whole Numbers	13	3.OA.4: Determine the unknown whole number in a multiplication or division equation relating three whole numbers. <i>For example, determine the unknown number that makes the equation true in each of the equations $8 \times ? = 48$, $5 = \square \div 3$, $6 \times 6 = ?$.</i>	
	14	Relating Three Whole Numbers	14		
	15	Relating Three Whole Numbers	15		
	16	Relating Three Whole Numbers	16		
	A4	Assessment - Relating Three Whole Numbers	A4		
		Performance Lesson– Products & Quotients			
	33	Solve Two-step Problems	33	3.OA.8: Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	
	34	Solve Two-step Problems	34		
	35	Solve Two-step Problems	35		
	36	Solve Two-step Problems	36		
	A9	Assessment - Solve Two-step Problems	A9		
	37	Identify & Explain Arithmetic Patterns	37	3.OA.9: Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. <i>For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.</i>	
	38	Identify & Explain Arithmetic Patterns	38		
	39	Identify & Explain Arithmetic Patterns	39		
	40	Identify & Explain Arithmetic Patterns	40		
	A10	Assessment - Identify & Explain Arithmetic Patterns	A10		
		Performance Lesson – Equations & Patterns			

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Measurement and Data	1	Time Telling	1	3.MD.1: Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	
	2	Elapsed Time	2		
	3	Elapsed Time Using a Number Line	3		
	4	Elapsed Time Using a Number Line	4		
	A1	Assessment - Telling Time	A1		
	5	Liquid Volume – Liters and Milliliters	5	3.MD.2: Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). 6 Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.7	
	6	Liquid Volume – Liters and Milliliters	6		
	7	Mass – Grams and Kilograms	7		
	8	Mass – Grams and Kilograms	8		
	A2	Assessment - Problems Involving Mass & Liquid Volume	A2		
	17	Understanding Area – Square Units	17	3.MD.5: Recognize area as an attribute of plane figures and understand concepts of area measurement. 3.MD.5a: A square with side length 1 unit, called “a unit square,” is said to have “one square unit” of area, and can be used to measure area. 3.MD.5b: A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units.	
	18	Understanding Area – Square Units	18		
	19	Understanding Area – Square Units	19		
	20	Understanding Area – Square Units	20		
	A5	Assessment - Understanding Area – Square Units	A5		
	21	Understanding Area – Square Units	21	3.MD.6: Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).	
	22	Understanding Area – Square Feet	22		
	23	Understanding Area – Square Centimeters	23		
	24	Understanding Area – Square Meters	24		
	A6	Assessment - Understanding Area – Different Unit Measures	A6		
	25	Relate Area – Multiplying Side Lengths	25	3.MD.7: Relate area to the operations of multiplication and addition. 3.MD.7a: Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.	
	26	Relate Area – Multiplying Side Lengths	26		
	27	Relate Area – Multiplying Side Lengths	27		
	28	Relate Area – Multiplying Side Lengths	28		
	A7	Assessment - Relate Area – Multiply Side Lengths	A7		
		Performance Lesson – All About Area			

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Number and Operations – Fractions	1	Understand Fractions as Part of a Whole	1		
	2	Understand Fractions as Part of a Whole	2		
	3	Understand Fractions as Part of a Whole	3		
	4	Understand Fractions as Part of a Whole	4		
	A1	Assessment - Understand Fractions as Part of a Whole	A1		
	5	Fractions on a Number Line	5	3.NF.2a: Represent a fraction $1/b$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts. Recognize that each part has size $1/b$ and that the endpoint of the part based at 0 locates the number $1/b$ on the number line.	
	6	Fractions on a Number Line	6		
	7	Fractions on a Number Line	7	3.NF.2b: Represent a fraction a/b on a number line diagram by marking off a lengths $1/b$ from 0. Recognize that the resulting interval has size a/b and that its endpoint locates the number a/b on the number line.	
	8	Fractions on a Number Line	8		
	A2	Assessment - Fractions on a Number Line	A2	3.NF.2a, 3.NF.2b	
	Performance Lesson – Modeling Fractions				
	9	Understand Equivalent Fractions	9	3.NF.3a: Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	
	10	Understand Equivalent Fractions	10		
	11	Equivalent Fractions & Whole Numbers	11	3.NF.3c: Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers. <i>Examples: Express 3 in the form $3 = 3/1$; recognize that $6/1 = 6$; locate $4/4$ and 1 at the same point of a number line diagram.</i>	
	12	Equivalent Fractions & Whole Numbers	12		
	A3	Assessment - Equivalent Fractions & Whole Numbers	A3	3.NF.3a, 3.NF.3c	