

Grade 3

Learning Goals mapped to Indiana Academic Standards

Everyday Mathematics Learning Goals			Indiana Academic Math Standard		ISTEP+ Questions	
Unit 1 Routines, Review, and Assessment						
1	a	D	Identify and use number patterns to solve problems (Lessons 1.2 and 1.11)			
1	b	DS	Count by 10s and 100s (Lesson 1.2)			
1	c	DS	Apply place-value concepts in 4-digit numbers (Lessons 1.2 and 1.3)			
1	d	DS	Tell and show times to the nearest minute (Lesson 1.4)			
1	e	DS	Count combinations of bills and coins and write the total in dollars-and-cents notation (Lessons 1.9 and 1.10)	3.5.10	Find the value of any collection of coins and bills. Write amounts less than a dollar using the ¢ symbol and write larger amounts in decimal notation using the \$ symbol. (L 1.9)	ISTEP+ T1 #9
				3.5.11	Use play or real money to decide whether there is enough money to make a purchase. (L 1.10)	ISTEP+ T1 #910
1	f	DS	Find equivalent names for numbers (Lesson 1.6)			
1	g	S	Know basic addition facts (Lessons 1.3, 1.4, and 1.6)			
Unit 2 Adding and Subtracting Whole Numbers						
2	a	D	Estimate answers to multidigit addition and subtraction problems. (Lessons 2.2, 2.7, and 2.8)	3.2.7	Use estimation to decide whether answers are reasonable in addition and subtraction problems. (L 2.7-2.8)	
2	b	DS	Use basic facts to solve fact extensions. (Lesson 2.2)			
2	c	DS	Complete "What's My Rule?" tables. (Lesson 2.3)	3.3.6	Solve simple problems involving a functional relationship between two quantities. (L 2.3-2.4)	ISTEP+ T1 #3-4
2	d	S	Know basic addition and subtraction facts. (Lesson 2.1)	3.2.8	Use mental arithmetic to add or subtract with numbers less than 100. (L 2.1)	
2	e	S	Complete fact and number families. (Lesson 2.1)	3.2.8	Use mental arithmetic to add or subtract with numbers less than 100. (L 2.1)	
2	f	S	Solve addition and subtraction multidigit number stories. (Lessons 2.4-2.6, 2.9)	3.2.1	Add and subtract whole numbers up to 1,000 with or without regrouping, using relevant properties of the number system. (L 2.1-2.2, 2.7-2.9)	
2	g	S	Add multidigit numbers. (Lessons 2.7 and 2.9)	3.2.1	Add and subtract whole numbers up to 1,000 with or without regrouping, using relevant properties of the number system. (L 2.1-2.2, 2.7-2.9)	
2	h	S	Subtract multidigit numbers. (Lesson 2.8)	3.2.1	Add and subtract whole numbers up to 1,000 with or without regrouping, using relevant properties of the number system. (L 2.1-2.2, 2.7-2.9)	

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Unit 3 Linear Measures and Area						
3	a	D	Find the perimeter of a polygon. (Lessons 3.4 and 3.5)	3.5.3	Find the perimeter of a polygon	ISTEP+ T1 #5
3	b	D	Find the area of a rectangular region divided into square units. (Lessons 3.6 and 3.7)	3.5.4	Estimate or find the area of shapes by covering them with squares.	
				3.3.1	Represent relationships of quantities in the form of a numeric expression or equation. (L 3.6 p195)	
3	c	S	Measure line segments to the nearest 1/4 inch. (Lessons 3.2 and 3.3)	3.5.1	Measure line segments to the nearest half-inch.	ISTEP+ T1 #2
				3.5.2	Add units of length that may require regrouping of inches to feet or centimeters to meters. (L 3.3)	ISTEP+ T1 #1
3	d	S	Measure line segments to the nearest centimeter. (Lesson 3.2)			
			Lesson 3.8 No learning goals mapped to this lesson	3.3.2.	Solve problems involving numeric equations.	ISTEP+ T1 #8
Unit 4 Multiplication and Division						
4	a	D	Solve number stories involving equal groups by using multiplication. (Lessons 4.1 and 4.2)	3.2.2	Represent the concept of multiplication as repeated addition.	ISTEP+ T2 #1; Problem Solving #1-4
4	b	D	Solve number stories involving equal sharing and equal grouping. (Lessons 4.3 and 4.4)	3.2.3	Represent the concept of division as repeated subtraction, equal sharing, and forming equal groups. (L 4.3)	ISTEP+ T2 #2
				3.1.7	Identify odd and even numbers up to 1,000 and describe their characteristics. (L 4.3)	ISTEP+ T2 #3; Problem Solving #5-6
4	c	D	Know multiplication facts having 3 or 4 as one factor and 2 through 7 as the other factor. (Lessons 4.6 and 4.9)			
4	d	DS	Know multiplication facts having 2, 5, or 10 as a factor. (Lessons 4.5 and 4.6)	3.2.5	Show mastery of multiplication facts for 2, 5, and 10.	ISTEP+ T2 #7-9
4	e	DS	Complete multiplication/division fact families. (Lessons 4.6 and 4.9)	3.2.4	Know and use the inverse relationship between multiplication and division facts, such as $6 \times 7 = 42$, $42 \div 7 = 6$, $7 \times 6 = 42$, $42 \div 6 = 7$.	ISTEP+ T2 #4
4	f	S	Know multiplication facts having 0 or 1 as a factor. (Lesson 4.5)	3.3.4	Understand and use the commutative and associative rules of multiplication.	ISTEP+ T2 #6
			Supplement this unit: need associative	3.3.4	Understand and use the commutative and associative rules of multiplication.	ISTEP+ T2 #6

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Unit 5 Place Value in Whole Numbers and Decimals					
5a	B	Read, write, and compare 6- and 7-digit whole numbers. (Lessons 5.3 - 5.5)			
5b	B	Read and write 3-digit decimals. (Lesson 5.11)			
5c	D	Compare and order decimals. (Lessons 5.7-5.9)	3.1.11	Given a set of objects or a picture, name and write a decimal to represent tenths and hundredths. (L 5.7-12)	ISTEP+ T4 #5, 8
			3.1.12	Given a decimal for tenths, show it as a fraction using a place-value model. (L 5.7)	ISTEP+ T4 #6-7
5d	D	Identify place value in decimals. (Lessons 5.8 and 5.9)			
5e	D	Read and write 1-and 2-digit decimals. (Lesson 5.11)			
5f	DS	Know multiplication facts from the first set of Fact Triangles. (Lessons 5.1-5.4)	3.1.1	Count, read, and write whole numbers up to 1,000. (L 5.1)	
5g	S	Read, write, and compare whole numbers up to 5 digits. (Lessons 5.1-5.4)	3.1.1	Count, read, and write whole numbers up to 1,000. (L 5.1)	
			3.1.3	Use words, models, and expanded form to represent numbers up to 1,000. (L 5.1)	ISTEP+ T3 #7
			3.1.5	Compare whole numbers up to 1,000 and arrange them in numerical order.	ISTEP+ T3 #8
			3.1.4	Identify any number up to 1,000 in various combinations of hundreds, tens, and ones. (L 5.3)	ISTEP+ T3 #5-6
5h	S	Identify place value in whole numbers up to 5 digits. (Lessons 5.1 and 5.2)	3.1.2	Identify and interpret place value in whole numbers up to 1,000. (L 5.1)	ISTEP+ T3 #3-4
		Lesson 5.5 <i>No learning goals mapped to this lesson</i>	3.5.12	Carry out simple unit conversions within a measurement system. (L 5.5)	
		Lesson 5.1 (?)	3.1.13	Interpret data displayed in a circle graph and answer questions about the situation. (L 5.1)	

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Unit 6 Geometry						
6	a	D	Identify, draw, and name line segments, lines and rays. (Lessons 6.1 and 6.2)	3.4.5	Draw a shape that is congruent to another shape. (L 6.1)	ISTEP+ T6 #3-4
6	b	D	Draw parallel and intersecting line segments, lines and rays. (Lesson 6.2)	3.4.7	Draw line segments and lines.	ISTEP+ T5 #1
				3.4.10	Recognize geometric shapes and their properties in the environment and specify their locations.	
				3.4.6	Use the terms point, line, and line segment in describing two-dimensional shapes. (L 6.2, 6.5-6.6)	ISTEP+ T5 #2
6	c	D	Draw angles as records of rotations. (Lesson 6.7)			
6	d	S	Know multiplication facts from the first set of Fact Triangles. (Lessons 6.2, 6.6-6.8, and 6.12)			
6	e	S	Identify right angles. (Lessons 6.3, 6.7, and 6.8)			
6	f	S	Identify and name 2-D and 3-D shapes. (Lessons 6.4-6.6, 6.11, and 6.12)	3.4.1	Identify quadrilaterals as four-sided shapes. (L 6.5)	ISTEP+ T5 #3, 5-6
				3.4.3	Identify, describe, and classify: cube, sphere, prism, pyramid, cone, cylinder. (L 6.11-6.12)	ISTEP+ T6 #5-8
				3.4.4	Identify common solid objects that are the parts needed to make a more complex solid object. (L 6.12)	none in Resources
6	g	S	Identify symmetric figures and draw lines of symmetry. (Lesson 6.9)	3.4.2	Identify right angles in shapes and objects and decide whether other angles are greater or less than a right angle. (L 6.3, 6.7-6.8)	ISTEP+ T5 #4
				3.4.8	Identify and draw lines of symmetry in geometric shapes.	ISTEP+ T5 #7-8
				3.4.9	Sketch the mirror image reflections of shapes.	ISTEP+ T6 #1-2
Unit 7 Multiplication and Division						
7	a	BD	Understand function and placement of parentheses in number sentences. (Lessons 7.4 and 7.5)	3.3.3	Choose appropriate symbols for operations and relations to make a number sentence true. (L 7.4-7.5)	ISTEP+ T7 #1-4
7	b	BD	Make ballpark estimates for sums and products. (Lesson 7.7)	3.1.6	Round numbers less than 1,000 to the nearest ten and the nearest hundred.	ISTEP+ T7 #5-6
7	c	D	Recognize and know square products. (Lessons 7.1 and 7.2)	3.3.5	Create, describe, and extend number patterns using multiplication. (L 7.1, 7.6)	ISTEP+ T7 #7; Problem Solving #1-4
7	d	D	Know multiplication facts from second set of Fact Triangles. (Lessons 7.2 and 7.3)			
7	e	D	Solve extended multiplication facts to tens times tens. (Lessons 7.6 and 7.8)	3.3.5	Create, describe, and extend number patterns using multiplication. (L 7.1, 7.6)	ISTEP+ T7 #7; Problem Solving #1-4

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Unit 8 Fractions					
8a	B	Compare and order fractions. (Lesson 8.5)	3.1.10	Given a pair of fractions, decide which is larger or smaller by using objects or pictures. (L 8.5)	ISTEP+ T8 #2
8b	B	Convert between mixed numbers and fractions. (Lesson 8.6)			
8c	BD	Identify fractions on a number line. (Lesson 8.3 and 8.4)	3.1.9	Identify and use correct names for numerators and denominators. (L 8.3)	ISTEP+ T8 #1, 3
			3.2.6	Add and subtract simple fractions with the same denominator. (L 8.3)	ISTEP+ T8 #5-12
			3.1.10	Given a pair of fractions, decide which is larger or smaller by using objects or pictures. (L 8.3)	ISTEP+ T8 #2
8d	BD	Find equivalent fractions. (Lessons 8.4 and 8.5)	3.1.8	Show equivalent fractions using equal parts. (L 8.4-8.6)	ISTEP+ T8 #4
8e	BD	Solve fraction number stories. (Lesson 8.7)			
8f	D	Identify fractional parts of a set. (Lessons 8.1 and 8.4)	3.1.8	Show equivalent fractions using equal parts. (L 8.4-8.6)	ISTEP+ T8 #4
8g	D	Identify fractional parts of a region. (Lessons 8.1 and 8.5)	3.1.8	Show equivalent fractions using equal parts. (L 8.4-8.6)	ISTEP+ T8 #4
Unit 9 Multiplication and Division					
9a	B	Solve number stories involving positive and negative numbers. (Lesson 9.13)			
9b	BD	Multiply multidigit numbers by 1- or 2-digit numbers. (Lessons 9.4, 9.5, 9.9, 9.11, and 9.12)			
9c	BD	Find factors of a number. (Lesson 9.6)			
9d	BD	Interpret remainders in division problems. (Lesson 9.8)			
9e	D	Solve extended multiplication facts to hundreds times hundreds. (Lesson 9.1)			
9f	D	Solve number stories involving equal shares and equal groups. (Lessons 9.1, 9.5, 9.7, and 9.9)			

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Unit 10 Measurement and Data						
10	a	BD	Find the volume of rectangular prisms. (Lessons 10.2 and 10.3)	3.5.5	Estimate or find the volume of objects by counting the number of cubes that would fill them.	ISTEP+ T9 #1
10	b	BD	Find the mean of a data set. (Lesson 10.8)			
10	c	D	Find the median of a data set. (Lesson 10.7)			
10	d	D	Measure in centimeters and inches. (Lesson 10.1)	3.5.2	Add units of length that may require regrouping of inches to feet or centimeters to meters.	
				3.5.12	Carry out simple unit conversions within a measurement system.	ISTEP+ T4 #1-4
10	e	D	Know units of measure for length, weight, and capacity. (Lessons 10.4-10.6)	3.5.12	Carry out simple unit conversions within a measurement system. (L 10.6)	ISTEP+ T4 #1-4
10	f	D	Make a frequency table. (Lesson 10.10)			
10	g	D	Know multiplication facts. (Lessons 10.2, 10.5, 10.6, and 10.9)	3.5.7	Estimate and measure weight using pounds and kilograms. (L10.5)	ISTEP+ T9 #2, 4
				3.5.6	Estimate and measure capacity using quarts, gallons, and liters. (L 10.6)	ISTEP+ T9 #3
10	h	DS	Make a bar graph. (Lesson 10.7)			
Unit 11 Probability, End-of-Year Review						
11	a	BD	Understand and use the language of probability. (Lesson 11.1)	3.1.14	Identify whether events are certain, likely, unlikely, or impossible. (L 11.1)	ISTEP+ T9 #5
				3.1.15	Record the possible outcomes for a simple probability experiment. (L 11.1-11.3, 11.6-11.7)	
11	b	BD	Use fractions to record probability of events. (Lessons 11.4 and 11.5)			
11	c	BD	Use random draws to predict outcomes. (Lesson 11.6)			
11	d	BD	Collect and organize data for use in predicting outcomes. (Lesson 11.7)			
11	e	BD	Understand area model of probability and solve simple spinner problems. (Lessons 11.4, 11.5, and 11.7)	3.1.13	Interpret data displayed in a circle graph and answer questions about the situation. (L 11.4-11.6)	
			Daily activities	3.5.8	Compare temperatures in Celsius and Fahrenheit.	ISTEP+ T9 #6
			Daily activities	3.5.9	Tell time to the nearest minute and find how much time elapsed	ISTEP+ T9 #7-8