

**Grade 2**

**Learning Goals mapped to Indiana Academic Standards**

Everyday Mathematics Learning Goals				Indiana Academic Math Standard		ISTEP Questions
<b>Unit 1 Numbers and Routines</b>						
1	a	D	Find values of coin and bill combinations (Lessons 1.2, 1.6)	2.1.3	Identify numbers up to 100 in various combinations of tens and ones.	ISTEP+ T1 #9-10
				2.2.1	Model addition of numbers less than 100 with objects and pictures.	ISTEP+ T1 #9-10
1	b	D	Know "easy" addition facts (sums to 10) (Lesson 1.2)			
1	c	D	Identify place value for ones, tens, and hundreds (Lesson 1.9)			
1	d	D	Complete number sequences; identify and use number patterns to solve problems (Lessons 1.1, 1.8)	2.3.3	Recognize and extend a linear pattern by its rules. (L 1.8)	none in Resources
				2.1.1	Count by ones, twos, fives, and tens to 100. (L 1.8)	ISTEP+ T1 #7,12
				2.1.2	Identify the pattern of numbers in each group of ten, from tens through nineties. (L 1.8)	ISTEP+ T1 #7
1	e	D	Find equivalent names for numbers (Lessons 1.1, 1.8)	2.1.7	Identify odd and even numbers up to 100.	none in Resources
1	f	D	Compare numbers: write symbols <, >, or = (Lesson 1.12)	2.1.5	Compare whole numbers up to 100 and arrange them in numerical order.	none in Resources
1	g	S	Count by 2's, 5's, and 10's (Lesson 1.11)			
1	h	S	Make tallies and give the total. (Lesson 1.5)	2.1.11	Collect and record numerical data in systematic ways.	none in Resources
			Lesson 1.3 <i>No learning goal mapped to this lesson</i>	2.1.6	Match the number names first, second, third, etc. with an ordered set of up to 100 items.	none in Resources
				2.5.9	Tell time to the nearest quarter hour, be able to tell five-minute intervals, and know the difference between a.m. and p.m.	ISTEP+ T1 #3-6
			Lesson 1.9 <i>No learning goal mapped to this lesson</i>	2.1.5	Compare whole numbers up to 100 and arrange them in numerical order.	none in Resources
			Lesson 1.13 <i>No learning goal mapped to this lesson</i>	2.2.1	Model addition of numbers less than 100 with objects and pictures.	ISTEP+ T1 #1-2
				2.5.8	Estimate temperature. Read a thermometer in Celsius and Fahrenheit.	none in Resources
<b>Unit 2 Addition and Subtraction Facts</b>						
2	a	D	Know "harder" subtraction facts (Lesson 2.13)			
2	b	DS	Know "harder" addition facts (Developing/Secure ) (Lessons 2.4, 2.5)	2.3.2	Use the commutative and associative rules for addition to simplify mental calculations and to check results. (L 2.4)	none in Resources
2	c	DS	Know "easier" subtraction facts (Developing/Secure ) (Lessons 2.8,2.12)			
2	d	DS	Complete "What's My Rule?" tables (Lesson 2.11)	2.3.4	Create, describe, and extend number patterns using addition and subtraction.	ISTEP+ Problem Solving, #1-4; ISTEP+ T2 #15-16, 19

**Grade 2**

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2e	DS	Solve simple subtraction number stories (Lesson 2.6)	2.2.3	Subtract two whole numbers less than 100 without regrouping. (L 2.6, 2.9)	ISTEP+ T2 #7-10, 12
			2.2.4	Understand and use the inverse relationship between addition and subtraction.	ISTEP+ T2 #11
2f	S	Know "easier" addition facts (Lessons 2.2,2.3, 2.8)	2.2.2	Add two whole numbers less than 100 with and without regrouping.	ISTEP+ T2 #1-6
			2.2.6	Use mental arithmetic to add or subtract 0,1,2,3,4,5, or 10 with numbers less than 100. (L 2.2)	none in Resources
2g	S	Construct fact families for addition and subtraction (Lessons 2.6,2.8)	2.2.3	Subtract two whole numbers less than 100 without regrouping. (L 2.6, 2.9)	ISTEP+ T2 #7-10, 12
2h	S	Complete simple Frames-and-Arrows diagrams (Lesson 2.10)	2.3.4	Create, describe, and extend number patterns using addition and subtraction.	ISTEP+ Problem Solving, #1-4; ISTEP+ T2 #15-16, 19
2i	S	Solve simple addition number stories (Lesson 2.1)	2.3.1	Relate problem situations to number sentences involving addition and subtraction.	ISTEP+ T2 #13-14, 17-18
2j	S	Find equivalent names for numbers (Lesson 2.9)	2.2.3	Subtract two whole numbers less than 100 without regrouping. (L 2.6, 2.9)	ISTEP+ T2 #7-10, 12
		Lesson 2.7 No learning goal mapped to this lesson	2.5.6	Estimate weight and use a given object to measure the weight of other objects.	none in Resources
<b>Unit 3 Place Value, Money, and Time</b>					
3a	D	Solve Frames-and-Arrows problems having two rules (Lesson 3.6)			
3b	D	Make change (Lessons 3.2, 3.7, 3.8)	2.5.12	Find the value of a collection of pennies, nickels, dimes, quarters, half-dollars, and dollars. (L 3.8)	ISTEP+ T3 #5
3c	D	Know more difficult subtraction facts (Lesson 3.5)	2.1.11	Collect and record numerical data in systematic ways.	none in Resources
3d	DS	Tell time to 5-minute intervals (Lessons 3.3, 3.4)			
3e	S	Identify place value in 2- digit and 3-digit numbers (Lessons 3.1,3.4)			
3f	S	Show "P," "N," "D," and "Q" for a given amount (Lesson 3.2)			
3g	S	Know all addition facts (Lesson 3.5)	2.1.12	Represent, compare, and interpret data using tables, tally charts, and bar graphs.	ISTEP+ T3 #1-4
3h	S	Know easy subtraction facts (Lesson 3.5)	2.1.12	Represent, compare, and interpret data using tables, tally charts, and bar graphs.	ISTEP+ T3 #1-4

**Grade 2**

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<b>Unit 4 Addition and Subtraction</b>					
4 a	D	Devise and use strategies for finding sums of 2-digit numbers (Lessons 4.1, 4.6 -4.9)			
4 b	D	Devise and use strategies for finding differences of 2-digit numbers (Lesson 4.4)			
4 c	D	Estimate approximate costs and sums (Lessons 4.5, 4.8)	2.2.5	Use estimation to decide whether answers are reasonable in addition problems. (L 4.5)	none in Resources
4 d	D	Read degrees Fahrenheit on a thermometer (Lessons 4.3, 4.4)	2.5.8	Estimate temperature. Read a thermometer in Celsius and Fahrenheit. (L 4.3)	none in Resources
4 e	S	Add and subtract multiples of 10 (Lessons 4.1- 4.3, 4.6-4.9)	2.5.12	Find the value of a collection of pennies, nickels, dimes, quarters, half-dollars, and dollars. (L 4.3)	ISTEP+ T3 #5
			2.5.4	Estimate area and use a given object to measure the area of other objects. (L 4.7)	none in Resources
			2.5.11	Find the duration of intervals of time in hours. (L 4.9)	ISTEP+ T3 #6-7
<b>Unit 5 3-D and 2-D Shapes</b>					
5 a	D	Identify 3-dimensional shapes, such as rectangular prisms, cylinders, pyramids, cones, and spheres (Lessons 5.7, 5.8)	2.4.2	Describe, classify, and sort plane and solid geometric shapes according to the number and shape of faces, and the number of edges and vertices.	ISTEP+ T4 #1-5
			2.4.3	Investigate and predict the result of putting together and taking apart two-and three-dimensional shapes. (L 5.8)	ISTEP+ Problem Solving, #1-4
			2.4.5	Recognize geometric shapes and structures in the environment and specify their locations. (L 5.7)	none in Resources
5 b	D	Identify symmetrical figures (Lesson 5.9)			
5 c	D	Find common attributes of shapes (Lessons 5.1,5.2)			
5 d	D	Identify parallel and nonparallel line segments (Lesson 5.5)			
5 e	DS	Draw line segments (Lessons 5.4, 5.5)			
5 f	S	Identify 2-dimensional shapes (Lessons 5.2, 5.3, 5.6)	2.4.1	Construct squares, rectangles, triangles, cubes, and rectangular prisms with appropriate materials (L 5.6-5.7)	none in Resources
		*not in gr 2 EM	2.4.4	Identify congruent two-dimensional shapes in any position.	ISTEP+ T4 #6-7
<b>Unit 6 Whole-Number Operations and Number Stories</b>					
6 a	BD	Solve stories about multiples of equal groups (Lessons 6.8,6.9,6.11)			
6 b	BD	Solve equal-grouping and equal-sharing division problems (Lessons 6.11,6.12)			
6 c	D	Use the trade-first method to solve 2-digit subtraction problems (Lessons 6.6, 6.10,6.12)			
6 d	D	Make ballpark estimates of exact answers (lessons 6.1, 6.4, 6.6,6.7,6.10,6.11)			

**Grade 2**

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6e	D	Model multiplication problems with arrays (Lessons 6.9, 6.10)			
6f	D	Add three 2-digit numbers mentally (Lessons 6.1, 6.5,6.10)			
6g	DS	Add and subtract with multiples of 10 (Lessons 6.1,6.5,6.10)			
6h	DS	Solve addition and subtraction number stories (Lessons 6.2 -6.4, 6.7)	2.1.11	Collect and record numerical data in systematic ways. (L 6.3)	none in Resources
			2.1.12	Represent, compare, and interpret data using tables, tally charts, and bar graphs. (L 6.3)	none in Resources
6i	S	Add three 1-digit numbers mentally (Lessons 6.1, 6.4, 6.7)	2.1.11	Collect and record numerical data in systematic ways. (L 6.3)	none in Resources
<b>Unit 7 Patterns and Rules</b>					
7a	D	Find missing addends for any multiple of 10 (Lesson 7.3)			
7b	D	Find the median (middle) value of a data set (Lesson 7.8)			
7c	D	Add three 2-digit numbers mentally (Lesson 7.4)			
7d	DS	Measure to the nearest inch (Lesson 7.7)			
7e	DS	Measure to the nearest centimeter (Lesson 7.7)			
7f	S	Know complements of 10 (Lesson 7.3)			
7g	S	Count by 2's, 5's, and 10's and describe the patterns (Lesson 7.1)			
7h	S	Find missing addends for the next multiple of 10 (Lesson 7.2)			
7i	S	Solve number-grid puzzles (Lesson 7.2)			
7j	S	Plot data on a bar graph (Lesson 7.9)	2.3.3	Recognize and extend a linear pattern by its rules.	none in Resources
		Lesson 7.5 <i>No learning goal mapped to this lesson</i>			
<b>Unit 8 Fractions</b>					
8a	BD	Compare fractions (Lessons 8.5- 8.7)			
8b	D	Understand fractions as names for equal parts of a region or set (Lessons 8.1 -8.3, 8.7)	2.1.8	Recognize fractions as parts of a whole or parts of a group. (L 8.1-8.3)	ISTEP+ T5 #1-4
8c	D	Understand that the amount represented by a fraction depends on the size of the whole (ONE) (Lessons 8.2, 8.3, 8.7)	2.1.10	Know that, when all fractional parts are included, the result is equal to the whole and to one.	ISTEP+ T5 #7-8
8d	D	Shade a specified fractional part of a collection (Lessons 8.3)			
8e	D	Give the fraction name for the shaded part of a collection (Lesson 8.3)	2.1.9	Recognize, name, and compare the unit fractions: 1/2, 1/3, 1/4, 1/5, 1/6, 1/8, 1/10, and 1/12.	ISTEP+ T5 #5-6
8f	D	Recognize equivalent fraction names (Lessons 8.4- 8.6)			
8g	S	Shade a specified fractional part of a region (Lessons 8.1,8.4)			
8h	S	Give the fraction name for the shaded part of a region (Lessons 8.1,8.3, 8.5)	2.1.9	Recognize, name, and compare the unit fractions: 1/2, 1/3, 1/4, 1/5, 1/6, 1/8, 1/10, and 1/12.	ISTEP+ T5 #5-6

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<b>Unit 9 Measurement</b>					
9a	BD	Identify equivalencies for mm, cm, dm, and m (Lessons 9.2, 9.3, 9.5, 9.9)	2.5.2	Describe the relationships among inch, foot, and yard. Describe the relationship between centimeter and meter. (L 9.2)	ISTEP+ T6 #1-2
9b	D	Measure to the nearest 1/2 inch (Lesson 9.3)			
9c	D	Measure to the nearest 1/2 cm (Lesson 9.3)			
9d	D	Use appropriate units for measurement and recognize sensible measurements (Lessons 9.1- 9.6,9.9,9.10)	2.5.7	Recognize the need for a fixed unit of weight. (L 9.1)	none in Resources
			2.5.3	Decide which unit of length is most appropriate in a given situation. (L 9.2)	ISTEP+ T6 #6-8
			2.5.5	Estimate and measure capacity using cups and pints. (L 9.9)	none in Resources
9e	D	Find area concretely (Lessons 9.7, 9.8)			
9f	D	Find perimeter concretely (Lessons 9.4,9.5,9.8)			
9g	DS	Identify equivalencies for inches, feet, and yards (Lessons 9.2, 9.9)	2.5.2	Describe the relationships among inch, foot, and yard. Describe the relationship between centimeter and meter. (L 9.2)	ISTEP+ T6 #3-5
9h	S	Use a ruler, tape measure, and meter/yardstick correctly (Lessons 9.1- 9.4)	2.5.1	Measure and estimate length to the nearest inch, foot, yard, centimeter, and meter. (L 9.2)	none in Resources
			2.3.2	Use the commutative and associative rules for addition to simplify mental calculations and to check results.	none in Resources
<b>Unit 10 Decimals and Place Value</b>					
10a	B	Use parentheses in number models (Lesson 10.11)			
10b	D	Solve money stories involving change. (Lessons 10.6, 10.8)			
10c	D	Estimate totals for "ballpark" check of exact answers (Lessons 10.5, 10.6, 10.8, 10.9)			
10d	D	Know and express automatically the values of digits in 5-digit numbers (Lessons 10.10, 10.11)			
10e	S	Read and write money amounts in decimal notation (Lessons 10.2 - 10.4, 10.6)			
10f	S	Use equivalent coins to show money amounts in different ways (Lesson 10.1)			
10g	S	Use a calculator to compute money amounts (Lessons 10.3, 10.4, 10.7)			
10h	S	Know exchange values of U.S. coins (Lessons 10.2, 10.8, 10.10)			
10i	S	Know and express automatically the values of digits in 2-, 3-, and 4-digit numbers (Lessons 10.8 -10.11)			
<b>Unit 11 Whole-Number Operations Revisited</b>					
11a	D	Estimate and solve addition and subtraction number stories with dollars and cents (Lessons 11.1,11.2)			

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11	b	D	Solve 1-digit multiplication stories (multiples of equal groups) (Lessons 11.3,11.7)			
11	c	D	Solve simple division stories (equal sharing and equal grouping) (Lessons 11.4,11.7)			
11	d	D	Multiply numbers with 2, 5, or 10 as a factor (Lessons 11.5-11.9)			
11	e	D	Construct multiplication/division fact on fact families (Lessons 11.7,11.8)			
11	f	D	Make difference and ratio comparisons (Lessons 11.2, 11.9)			
11	g	S	Multiply numbers with 0 or 1 as a factor (Lesson 11.6)			
<b>Unit 12 Year-End Reviews and Extensions</b>						
12	a	B	Use alternate names for times of day (Lesson 12.2)			
12	b	B	Know "harder" multiplication facts (Lesson 12.5)			
12	c	B	Determine the mode of a data set (Lesson 12.7)			
12	d	D	Determine the median, maximum, minimum, and range of a data set (Lessons 12.6, 12.7)			
12	e	DS	Construct multiplication/division fact families (Lesson 12.4)			
12	f	DS	Multiply numbers with 2, 5, and 10 as a factor (Lesson 12.4)			
12	g	S	Tell time to 5-minute intervals (Lessons 12.1, 12.2)	2.5.10	Know relationships of time: seconds in a minute, minutes in an hour, hours in a day, days in a week, and days, weeks, and months in a year. (L 12.1)	ISTEP+ T 6 #1-2
12	h	S	Demonstrate calendar concepts and skills (Lesson 12.1)	2.5.10	Know relationships of time: seconds in a minute, minutes in an hour, hours in a day, days in a week, and days, weeks, and months in a year. (L 12.1)	ISTEP+ T 6 #1-2
12	i	S	Compare quantities from a bar graph (Lessons 12.6, 12.7)			