

# **Daily Pacing Guide**

**Integrating ISTEP+ Test Preparation**

**with**

***Mathematics: Applications and Concepts***  
**Course 3**

# Overview

The Daily Pacing Guide helps you easily integrate ISTEP+ test preparation into your daily lesson plans by providing assignments for each day leading up to the ISTEP+ test given in the fall of the following year. Armed with the Indiana Student Edition, Countdown to ISTEP+, and the Math Skills Maintenance Workbook, you have many opportunities to prepare your students for the ISTEP+ test every day.

The Daily Pacing Guide shows you how to incorporate continuous daily practice into your lessons to help ensure your students' success in the ISTEP+ test. Here are some features of the Daily Pacing Guide.

## **For the Student Edition**

- Tells you which lessons to include in your daily lesson plans so that your students will have covered all of the Grade 8 Indiana Academic Standards.
- Provides for ISTEP+ Practice at the end of each chapter in the 2-page Standardized Test Practice section.
- Includes several Catch-Up Days throughout the school year to help keep you and your students on track.

## **For the Countdown to ISTEP+**

- Lists each of the 23 weeks of Countdown to ISTEP+, so students can spend a few minutes each day practicing for the ISTEP+ test.
- Allows students to practice Open Ended problems (Monday and Friday) and Multiple Choice and Gridded Response problems (Tuesday, Wednesday, and Thursday).

## **For the Math Skills Maintenance Test Workbook**

- Provides opportunities for students to practice basic math skills they have learned in previous courses.
- Includes practice for each previously-learned skill, which you may assign before you study related lessons in the Student Edition or as short in-class or take-home refreshers any time during the school year.

Month	Week	Day	Student Edition Lesson	Indiana Academic Standards	Countdown to ISTEP+ Week	Indiana Academic Standards	Math Skills Maintenance Workbook Skill Number(s)	Page(s)
September	1	Monday	1-1 A Plan for Problem Solving	8.7.1, 8.7.10, 8.7.11			9, 11, 13, 14	17-18, 21-22, 25-28, 29-30
		Tuesday	1-2 Variables, Expressions, and Properties	8.3.4			1, 29	1-2, 60-61
		Wednesday	1-3 Integers and Absolute Value					
		Thursday	1-3b Graphing Data	8.7.1, 8.7.6, 8.7.9				
		Friday	1-4 Adding Integers	8.2.1			23, 30	48-49, 62-63
October	1	Monday	1-5 Subtracting Integers	8.2.1			24, 25	50-51, 52-53
		Tuesday	1-6 Multiplying and Dividing Integers	8.2.1			1, 25, 26, 27, 28, 30	1-2, 52-53, 54-55, 56-57, 58-59, 62-63
		Wednesday	1-7 Writing Expressions and Equations	8.3.1				
		Thursday	1-8a Problem-Solving Strategy: Work Backward	8.7.1, 8.7.12				
		Friday	1-8 Solving Addition and Subtraction Equations	8.3.1			23, 24, 25	48-49, 50-51, 52-53
October	2	Monday	1-9 Solving Multiplication and Division Equations	8.3.1, 8.5.1			26, 27, 28	54-55, 56-57, 58-59

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		Tuesday	Study Guide and Practice Test Standardized Test Practice					
		Wednesday	Chapter Assessment					
		Thursday	2-1 Fractions and Decimals	8.1.2			6, 9, 11, 15	11-12, 17-18, 31-22, 31-33
		Friday	2-2 Comparing and Ordering Rational Numbers				5, 7, 8	9-10, 13-14, 15-16
October	3	Monday	2-3 Multiplying Rational Numbers	8.2.1, 8.2.4			6, 16, 20, 30	11-12, 34-35, 42-43, 62-63
		Tuesday	2-4 Dividing Rational Numbers	8.2.1, 8.2.4			6, 16, 20, 21	11-12, 34-35, 42-43, 44-45
		Wednesday	2-5 Adding and Subtracting Like Fractions	8.2.1			6, 15, 16, 33	11-12, 31-33, 34-35, 70-72
		Thursday	2-6 Adding and Subtracting Unlike Fractions	8.2.1, 8.2.4			6, 7, 15, 17, 18, 19	11-12, 13-14, 31-33, 36-37, 38-39, 40-41
		Friday	2-7 Solving Equations with Rational Numbers	8.3.1			7, 9, 12, 13, 19, 20, 21, 22, 33	13-14, 17-18, 23-24, 25-28, 40-41, 42-43, 44-45, 46-47, 70-72
October	4	Monday	2-8a Problem-Solving Strategy: Look for a Pattern	8.7.1, 8.7.2, 8.7.4				
		Tuesday	2-8 Powers and Exponents	8.1.4, 8.3.3			1, 21	1-2, 44-45

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		Wednesday	2-9 Scientific Notation	8.1.1				
		Thursday	Study Guide and Practice Test Standardized Test Practice				1	1-2
		Friday	Chapter Assessment					
November	1	Monday	3-1 Square Roots	8.1.6				
		Tuesday	3-2 Estimating Square Roots	8.1.7, 8.5.4			26, 33	54-55, 70-72
		Wednesday	3-3a Problem-Solving Strategy: Use a Venn Diagram					
		Thursday	3-3 The Real Number System	8.1.2, 8.1.3				
		Friday	3-4 The Pythagorean Theorem	8.2.3, 8.4.5			8, 29	15-16, 60-61
November	2	Monday	3-5 Using the Pythagorean Theorem	8.4.1, 8.4.5			1	1-2
		Tuesday	3-6 Distance on the Coordinate Plane				1	1-2
		Wednesday	Study Guide and Practice Test Standardized Test Practice					
		Thursday	Chapter Assessment				1, 34	1-2, 73-75
		Friday	Catch-Up Day					

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November	3	Monday	4-1 Ratios and Rates	8.3.7, 8.5.2				
		Tuesday	4-2 Rate of Change	8.3.7			6	11-12
		Wednesday	4-3 Slope	8.3.7			6	11-12
		Thursday	4-4 Solving Proportions				6	11-12
		Friday	4-5a Problem-Solving Strategy: Draw a Diagram	8.7.1, 8.7.12			5	9-10
November	4	Monday	4-5 Similar Polygons	8.5.3				
		Tuesday	4-6 Scale Drawings and Models	8.5.3			5, 6	9-10, 11-12
		Wednesday	Catch-Up Day					
		Thursday	Thanksgiving					
		Friday	Thanksgiving					
December	1	Monday	4-7 Indirect Measurement				5	9-10
		Tuesday	4-8 Dilations	8.4.4, 8.5.3			5	9-10
		Wednesday	Study Guide and Practice Test Standardized Test Practice					
		Thursday	Chapter Assessment				5, 34	9-10, 73-75
		Friday	5-1 Ratios and Percents					

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December	2	Monday	5-2 Fractions, Decimals, and Percents		1	8.7.1, 8.7.2, 8.7.6		
		Tuesday	5-3 The Percent Proportion		1	8.2.1	5, 6	9-10, 11-12
		Wednesday	5-4 Finding Percents Mentally	8.2.4	1	8.2.1	5, 10, 11, 12, 33	9-10, 19-20, 21-22, 23-24, 70-72
		Thursday	5-5a Problem-Solving Strategy: Reasonable Answers	8.7.11	1	8.2.1, 8.7.10	5	9-10
		Friday	5-5 Percent and Estimation	8.2.3, 8.2.4, 8.7.8	1	8.2.1, 8.7.6	10, 20	19-20, 42-43
December	3	Monday	5-6 The Percent Equation		2	8.2.1, 8.7.10		
		Tuesday	5-7 Percent of Change		2	8.2.1	20, 33	42-43, 70-72
		Wednesday	5-8 Simple Interest	8.2.2	2	8.2.1, 8.3.3, 8.3.4	10, 11, 12	19-20, 21-23, 23-24
		Thursday	Study Guide and Practice Test Standardized Test Practice		2	8.3.1		
		Friday	Chapter Assessment		2	8.7.6		
January	1	Monday	6-1 Line and Angle Relationships		3	8.1.2		
		Tuesday	6-1b Constructing Parallel Lines	8.4.2	3	8.1.2, 8.2.1	10, 11, 12	19-20, 21-23, 23-24
		Wednesday	6-2 Triangles and Angles		3	8.2.1, 8.3.1		

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		Thursday	6-2b Bisecting Angles	8.4.2	3	8.2.1, 8.7.10		
		Friday	6-3 Special Right Triangles		3	8.2.1, 8.7.10		
January	2	Monday	6-3b Constructing Perpendicular Bisectors	8.4.2	4	8.7.8		
		Tuesday	6-4 Classifying Quadrilaterals	8.4.1	4	8.1.4, 8.3.4, 8.5.4		
		Wednesday	6-4b Problem-Solving Strategy: Use Logical Reasoning		4	8.1.5, 8.2.1, 8.3.3, 8.7.1, 8.7.10	1	1-2
		Thursday	6-5a Angles of Polygons		4	8.2.1		
		Friday	6-5 Congruent Polygons		4	8.1.1, 8.7.10		
January	3	Monday	6-5b Constructing Congruent Triangles	8.4.2	5	8.7.1, 8.7.6		
		Tuesday	6-6 Symmetry		5	8.1.6, 8.1.7		
		Wednesday	6-7 Reflections	8.4.4	5	8.2.1, 8.7.10		
		Thursday	6-8 Translations	8.4.4	5	8.1.7, 8.4.5	34	73-75
		Friday	6-9 Rotations	8.4.4	5	8.1.7, 8.4.5	34	73-75
January	4	Monday	Study Guide and Practice Test Standardized Test Practice		6	8.4.5, 8.7.6, 8.7.10	34	73-75
		Tuesday	Chapter Assessment		6	8.2.1, 8.4.5, 8.7.10		

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		Wednesday	Catch-Up Day		6	8.4.1, 8.4.5, 8.5.3		
		Thursday	7-1 Area of Parallelograms, Triangles, and Trapezoids	8.4.1, 8.5.4	6	8.4.5		
		Friday	7-2 Circumference and Area of Circles	8.4.1, 8.5.4	6	8.4.5		
February	1	Monday	7-3a Problem-Solving Strategy: Solve a Simpler Problem	8.7.3, 8.7.4	7	8.3.7, 8.5.2, 8.7.6	10, 20, 33	19-20, 42-43, 70-72
		Tuesday	7-3 Area of Complex Figures	8.5.4	7	8.3.6, 8.4.5	10	19-20
		Wednesday	7-4a Building Three-Dimensional Figures	8.4.3	7	8.3.7, 8.5.2		
		Thursday	7-4 Three-Dimensional Figures	8.4.3	7	8.2.1	10, 20, 33	19-20, 42-43, 70-72
		Friday	7-5 Volume of Prisms and Cylinders	8.5.1, 8.5.4, 8.5.5	7	8.3.1, 8.7.6		
February	2	Monday	7-6 Volume of Pyramids and Cones	8.4.1, 8.5.4, 8.5.5	8	8.5.3, 8.7.6		
		Tuesday	7-7a Nets		8	8.2.1, 8.5.3	10, 20, 33	19-20, 42-43, 70-72
		Wednesday	7-7 Surface Area of Prisms and Cylinders	8.4.1, 8.5.4, 8.5.5	8	8.4.5, 8.5.3, 8.7.10	10, 20, 33	19-20, 42-43, 70-72
		Thursday	7-8 Surface Area of Pyramids and Cones	8.4.1, 8.5.4, 8.5.5	8	8.4.4		

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		Friday	7-8b Similar Solids		8	8.4.4, 8.5.3	9, 10, 20, 33	17-19, 19-20, 42-43, 70-72
February	3	Monday	7-9 Precision and Significant Digits	8.7.7	9	8.2.1, 8.7.6, 8.7.10	9, 10, 20, 33	17-19, 19-20, 42-43, 70-72
		Tuesday	Study Guide and Practice Test Standardized Test Practice		9	8.2.1, 8.3.1		
		Wednesday	Chapter Assessment		9	8.1.7, 8.2.1	31, 32	64-66, 67-69
		Thursday	Catch-Up Day		9	8.2.1		
		Friday	8-1 Probability of Simple Events	8.2.4, 8.6.6	9	8.2.3, 8.7.6		
February	4	Monday	8-2a Problem-Solving Strategy: Make a List	8.7.1	10	8.2.1, 8.7.6, 8.7.10	6	11-12
		Tuesday	8-2 Counting Outcomes	8.6.6, 8.6.7	10	8.2.1, 8.2.2		
		Wednesday	8-3 Permutations	8.6.6, 8.6.7	10	8.2.1, 8.2.2		
		Thursday	8-4 Combinations		10	8.2.1	6	11-12
		Friday	8-4b Combinations and Pascal's Triangle	8.6.6, 8.7.1, 8.7.2, 8.7.5, 8.7.6	10	8.5.3, 8.7.6	6	11-12
March	1	Monday	8-5 Probability of Compound Events	8.6.6	11	8.4.1		
		Tuesday	8-6 Experimental Probability	8.2.4	11	8.4.1	6, 20	11-12, 42-43
		Wednesday	8-6b Simulations		11	8.2.1, 8.4.5	5, 6, 20	9-10, 11-12, 42-43

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		Thursday	8-7 Using Sampling to Predict	8.6.2, 8.7.8	11	8.4.5		
		Friday	Study Guide and Practice Test Standardized Test Practice		11	8.4.1	10	19-20
March	2	Monday	Chapter Assessment		12	8.4.1		
		Tuesday	Catch-Up Day		12	8.1.2, 8.3.7		
		Wednesday	9-1a Problem-Solving Strategy: Make a Table	8.6.4	12	8.4.1, 8.4.4		
		Thursday	9-1 Histograms	8.6.4	12	8.4.4	35	76-80
		Friday	9-1b Histograms	8.6.4	12	8.4.4		
March	3	Monday	9-2 Circle Graphs	8.6.4	13	8.5.4	35	76-80
		Tuesday	9-3 Choosing an Appropriate Display	8.6.4	13	8.2.1, 8.5.4	35	76-80
		Wednesday	9-3b Maps and Statistics	8.6.4	13	8.5.1, 8.5.5		
		Thursday	9-4 Measures of Central Tendency	8.6.3	13	8.4.3, 8.5.4	35	76-80
		Friday	9-4b Mean, Median, and Mode	8.6.3	13	8.4.5, 8.5.4		
March	4	Monday	9-5 Measures of Variation	8.6.3	14	8.5.4, 8.7.10	35	76-80
		Tuesday	9-6 Box-and-Whisker Plots	8.6.3, 8.6.4	14	8.1.6, 8.4.1, 8.5.4	35	76-80

Month	Week	Day	Student Edition Lesson	Indiana Academic Standards	Countdown to ISTEP+ Week	Indiana Academic Standards	Math Skills Maintenance Workbook Skill Number(s)	Page(s)
		Wednesday	9-7 Misleading Graphs and Statistics	8.6.1	14	8.5.4, 8.7.10	35	76-80
		Thursday	9-8 Matrices		14	8.5.4	23, 24, 25	48-49, 50-51, 52-53
		Friday	Study Guide and Practice Test Standardized Test Practice		14	8.2.1, 8.7.6		
April	1	Monday	Chapter Assessment		15	8.6.6, 8.7.6		
		Tuesday	10-1a Algebra Tiles		15	8.5.4, 8.5.5, 8.6.7		
		Wednesday	10-1 Simplifying Algebraic Expressions		15	8.6.6, 8.6.7	23, 24, 25, 26, 30	48-49, 50-51, 52-53, 54-55, 62-63
		Thursday	10-2 Solving Two-Step Equations	8.3.1	15	8.3.1	23, 24, 25, 26, 27, 28	48-49, 50-51, 52-53, 54-55, 56-57, 58-59
		Friday	10-3 Writing Two-Step Equations	8.3.1	15	8.6.6, 8.7.6	9, 11	17-18, 21-22
April	2	Monday	10-4a Equations with Variables on Each Side		16	8.6.6		
		Tuesday	10-4 Solving Equations with Variables on Each Side	8.3.1	16	8.5.4, 8.6.6	9, 11, 23, 24, 25, 27	17-18, 21-22, 48-49, 50-51, 52-53, 56-57
		Wednesday	10-4b Problem-Solving Strategy: Guess and Check		16	8.2.2, 8.6.6		

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		Thursday	10-5 Inequalities	8.3.1	16	8.6.6	23, 24, 25, 26, 27, 28	48-49, 50-51, 52-53, 54-55, 56-57, 58-59
		Friday	10-6 Solving Inequalities by Adding or Subtracting	8.3.1	16	8.6.6	9, 18, 19, 23, 24, 25	17-18, 38-39, 40-41, 48-49, 50-51, 52-53
April	3	Monday	10-7 Solving Inequalities by Multiplying or Dividing	8.3.1	17	8.6.4	12, 26, 27, 28	23-24, 54-55, 56-57, 58-59
		Tuesday	Study Guide and Practice Test Standardized Test Practice		17	8.6.4, 8.6.6		
		Wednesday	Chapter Assessment		17	8.2.1, 8.6.4		
		Thursday	Catch-Up Day		17	8.7.6		
		Friday	Catch-Up Day		17	8.7.10		
April	4	Monday	11-1 Sequences	8.5.4, 8.7.1, 8.7.2	18	8.6.3, 8.7.6	19, 20	40-41, 42-43
		Tuesday	11-1b The Fibonacci Sequence	8.7.1	18	8.6.3, 8.7.6		
		Wednesday	11-2 Functions	8.3.8	18	8.6.4, 8.6.6	10, 17, 18, 20, 23, 24, 25, 28	19-20, 36-37, 38-39, 42-43, 48-49, 50-51, 52-53, 58-59
		Thursday	11-3a Graphing Relationships		18	8.6.2		
		Friday	11-3 Graphing Linear Functions	8.3.5, 8.3.8, 8.7.9	18	8.5.3, 8.7.6	23, 24, 25, 26, 34	48-49, 50-51, 52-53, 54-55, 73-75

Month	Week	Day	Student Edition Lesson	Indiana Academic Standards	Countdown to ISTEP+ Week	Indiana Academic Standards	Math Skills Maintenance Workbook Skill Number(s)	Page(s)
May	1	Monday	11-4 The Slope Formula		19	8.7.6	6, 24	11-12, 50-51
		Tuesday	11-5a Families of Linear Graphs	8.3.5	19	8.3.1, 8.3.8, 8.5.4		
		Wednesday	11-5 Slope-Intercept Form	8.3.5, 8.3.8	19	8.3.1, 8.3.8, 8.4.1	34	73-75
		Thursday	11-6a Problem-Solving Strategy: Use a Graph		19	8.7.1		
		Friday	11-6 Scatter Plots	8.6.5	19	8.3.1, 8.7.6	34, 35	73-75, 76-80
May	2	Monday	11-6b Scatter Plots	8.6.5	20	8.3.1		
		Tuesday	11-7 Graphing Systems of Equations	8.3.2, 8.3.5, 8.3.6, 8.3.8	20	8.3.1, 8.5.4	23, 24, 25, 26, 27, 28, 34	48-49, 50-51, 52-53, 54-55, 56-57, 58-59, 73-75
		Wednesday	11-8 Graphing Linear Inequalities	8.7.9	20	8.3.1, 8.3.8	34	73-75
		Thursday	Study Guide and Practice Test Standardized Test Practice		20	8.3.1		
		Friday	Chapter Assessment		20	8.6.3		
May	3	Monday	12-1 Linear and Nonlinear Functions	8.3.5	21	8.3.8, 8.7.1		
		Tuesday	12-2a Families of Quadratic Functions		21	8.2.1, 8.3.8		
		Wednesday	12-2 Graphing Quadratic Functions	8.3.9, 8.3.10	21	8.3.5, 8.3.8, 8.6.7	10, 23, 24, 25, 26, 34	19-20, 48-49, 50-51, 52-53, 54-55, 73-75

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		Thursday	12-3a Modeling Expressions with Algebra Tiles	8.3.9, 8.3.10	21	8.3.6		
		Friday	12-3 Simplifying Polynomials		21	8.3.6, 8.3.8	23, 24, 25	48-49, 50-51, 52-53
May	4	Monday	12-4 Adding Polynomials		22	8.3.7, 8.3.9	23	48-49
		Tuesday	12-5 Subtracting Polynomials		22	8.3.4, 8.6.5	24	50-51
		Wednesday	12-6 Multiplying and Dividing Monomials	8.1.5	22	8.3.2	26	54-55
		Thursday	12-7a Problem-Solving Strategy: Make a Model		22	8.3.1		
		Friday	12-7 Multiplying Monomials and Polynomials		22	8.3.1	26, 30	54-55, 62-63
June	1	Monday	Study Guide and Practice Test Standardized Test Practice		23	8.6.5		
		Tuesday	Chapter Assessment		23	8.1.5, 8.3.10		
		Wednesday	Catch-Up Day		23	8.3.9		
		Thursday	Catch-Up Day		23	8.5.4		
		Friday	Catch-Up Day		23	8.3.9		