

2023-2024 Grade 7 Standard Mathematics Pacing Calendar

Unit 1: Introduction		
Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 1-3 August 10-25	MA.6.DP.1.1, MA.6.DP.1.4	1.1 Statistics and Interpreting Data
	MA.6.AR.3.1, MA.6.AR.3.2, MA.6.AR.3.4	1.2 Ratio Relationships
	MA.6.NSO.1.1, MA.6.NSO.1.2, MA.6.NSO.1.3	1.3 Rational Numbers and Absolute Value
	MA.6.NSO.4.1, MA.6.NSO.4.2	1.4 Operations with Integers
	MA.6.AR.2.2, MA.6.AR.2.3	1.5 Solving One-Step Equations
	MA.6.AR.2.2, MA.6.AR.2.3	1.6 Writing and Solving One-Step Equations in Real-World Contexts
		Review Unit 1
		Unit 1 Assessment
		<i>Approximately 12 Days Total</i>
Unit 2: Probability		
Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 4-5 August 28- September 8	MA.7.DP.2.1	2.1 Exploring Sample Space
	MA.7.DP.2.1	2.2 Determining Sample Space
	MA.7.NSO.1.2	2.3 Rewriting Numbers in Equivalent Forms
	MA.7.NSO.1.2	2.4 Converting Between Repeating Decimals and Fractions
	MA.7.DP.2.2, MA.7.NSO.1.2	2.5 Probability
	MA.7.DP.2.2	2.6 Comparing Probabilities
	MA.7.DP.2.3, MA.7.DP.2.4	2.7 Experimental and Theoretical Probability
	MA.7.DP.2.4	2.8 Simulating Small and Large Numbers of Trials
	MA.7.DP.2.3, MA.7.DP.2.4	2.9 Experimental and Theoretical Probabilities from Simulations
		Review Unit 2
		Unit 2 Assessment
		<i>Approximately 9 Days Total</i>

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Unit 3: Operations with Rational Numbers

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 6-7 September 11- 22	MA.7.NSO.2.2	3.1 Adding Rational Numbers
	MA.7.NSO.2.2	3.2 Subtracting Rational Numbers
	MA.7.NSO.2.2	3.3 Multiplying Rational Numbers
	MA.7.NSO.2.2	3.4 Dividing Rational Numbers
	MA.7.NSO.2.3	3.5 Solving Real-World Problems with Rational Numbers - Part 1
	MA.7.NSO.2.3	3.6 Solving Real-World Problems with Rational Numbers - Part 2
	MA.7.NSO.2.3	3.7 Solving Real-World Problems with Rational Numbers - Part 3
	MA.7.NSO.2.3	3.8 Solving Real-World Problems with Rational Numbers - Part 4
		Review Unit 3
		Unit 3 Assessment
		<i>Approximately 10 Days Total</i>

Unit 4: Area

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 8-9 September 25- October 6	MA.7.GR.1.1	4.1 Deriving Area Formulas for Trapezoids, Parallelograms, and Rhombi
	MA.7.GR.1.1	4.2 Finding the Area of Trapezoids, Parallelograms, and Rhombi
	MA.7.GR.1.2	4.3 Finding the Area of Polygons
	MA.7.GR.1.2	4.4 Finding the Area of Composite Figures
	MA.7.GR.1.3	4.5 Exploring Relationships in Circles
	MA.7.GR.1.3	4.6 Finding Circumference
	MA.7.GR.1.3	4.7 Finding Radius and Diameter
	MA.7.GR.1.4	4.8 Exploring the Area of a Circle
	MA.7.GR.1.4	4.9 Finding the Area of a Circle
	MA.7.GR.1.3, MA.7.GR.1.4	4.10 Using Circumference and Area to Solve Problems
		Review Unit 4
		Unit 4 Assessment

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Approximately 10 Days Total

Unit 5: Scaling with Proportional Relationships

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 10-12 October 9-27	MA.7.DP.1.3	5.1 Random Samples vs. Population
	MA.7.DP.1.3, MA.7.DP.2.4	5.2 Determining Probability
	MA.7.DP.1.3	5.3 Making Population Predictions - Part 1
	MA.7.DP.1.3	5.4 Making Population Predictions - Part 2
	MA.7.GR.1.5	5.5 Scale Factors - Perimeter
	MA.7.GR.1.5	5.6 Scale Factors - Area
	MA.7.GR.1.5	5.7 Scale Drawings
	MA.7.GR.1.5	5.8 Solving Problems Involving Dimensions and Perimeters of Geometric Figures
	MA.7.GR.1.5	5.9 Solving Problems Involving Dimensions and Areas of Geometric Figures
	MA.7.GR.1.5	5.10 Solving Problems Involving Real-World Scale Drawings
		Review Unit 5
		Unit 5 Assessment
	<i>Approximately 14 Days Total</i>	

Unit 6: Solving Multi-Step Problems with Proportional Relationships

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 13-15 October 30 - November 17	MA.7.AR.3.3	6.1 Paying Your Way in Mathlandia
	MA.7.AR.3.3	6.2 Currency Conversions
	MA.7.AR.3.3	6.3 Converting Units of Length
	MA.7.AR.3.3	6.4 Converting Mass and Area
	MA.7.AR.3.3	6.5 Converting Units of Volume
	MA.7.AR.3.2	6.6 Creating Proportions
	MA.7.AR.3.2	6.7 Using Proportions to Solve Problems

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	MA.7.AR.3.2	6.8 Solving Real-World Problems Involving Proportions
	MA.7.AR.3.2, MA.7.AR.3.3, MA.7.AR.4.5	6.9 Exploring Multi-Step Proportion Problems
	MA.7.AR.4.5	6.10 Solving Multi-Step Proportion Problems
	MA.7.AR.3.2, MA.7.AR.4.5	6.11 Reasoning Through Problems Involving Proportional Relationships
		Review Unit 6
		Unit 6 Assessment
		<i>Approximately 14 Days Total</i>

Unit 7: Solving Percentage Problems with Proportional Relationships

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 16-18 November 2- December 8	MA.7.DP.1.4	7.1 Circle Graphs
	MA.7.DP.1.4	7.2 Sectors of a Circle
	MA.7.DP.1.4	7.3 Constructing Circle Graphs
	MA.7.DP.1.4	7.4 Interpreting Circle Graphs
	MA.7.AR.3.1	7.5 Discounts and Markups
	MA.7.AR.3.1	7.6 Determining Tax, Tip, or Fees Given a Percentage
	MA.7.AR.3.1	7.7 Solving Multi-Step Problems Involving Discounts, Taxes, Tips, or Fees
	MA.7.AR.3.1	7.8 Simple Interest
	MA.7.AR.3.1	7.9 Percent Increase and Decrease
	MA.7.AR.3.1	7.10 Calculating Percent Error
		Review Unit 7
		Unit 7 Assessment
		<i>Approximately 23 Days Total</i>

Unit 8: Evaluating Numeric Expressions

Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.7.NSO.1.1	8.1 Product Laws of Exponents
	MA.7.NSO.1.1	8.2 Quotient Laws of Exponents

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Weeks 19-20 December 11-22	MA.7.NSO.1.1	8.3 Exponential Expressions
	MA.7.NSO.2.1, MA.7.NSO.2.2	8.4 Evaluating Numeric Expressions - Part 1
	MA.7.NSO.2.1, MA.7.NSO.2.2	8.5 Evaluating Numeric Expressions - Part 2
	MA.7.NSO.2.1, MA.7.NSO.2.2	8.6 Evaluating Numeric Expressions - Part 3
		Review Unit 8
		Unit 8 Assessment
		<i>Approximately 9 Days Total</i>

Unit 9: Algebraic Expressions

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 21-22 January 8-19	MA.7.AR.1.1	9.1 Adding and Subtracting Linear Expressions with Integer Coefficients
	MA.7.AR.1.1	9.2 Adding Linear Expressions with Rational Coefficients
	MA.7.AR.1.1	9.3 Subtracting Linear Expressions with Rational Coefficients
	MA.7.AR.1.1	9.4 Adding and Subtracting Expressions with Rational Coefficients
	MA.7.AR.1.2	9.5 Equivalent Numerical Expressions
	MA.7.AR.1.2	9.6 Rewriting Equivalent Numerical Expressions
	MA.7.AR.1.2	9.7 Equivalent Linear Expressions
	MA.7.AR.1.2	9.8 Equivalent Expressions Using Properties of Operations
		Review Unit 9
		Unit 9 Assessment
		<i>Approximately 8 Days Total</i>

Unit 10: Equations and Inequalities

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 23-25 January 22- February 9	MA.7.AR.2.1	10.1 Exploring Inequalities - Part 1
	MA.7.AR.2.1	10.2 Solving One-Step Inequalities Using Addition and Subtraction
	MA.7.AR.2.1	10.3 Exploring Inequalities - Part 2
	MA.7.AR.2.1	10.4 Solving One-Step Inequalities Using Multiplication and Division

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	MA.7.AR.2.2	10.5 Solving Two-Step Equations Using Properties of Equality
	MA.7.AR.2.2	10.6 Solving Two-Step Equations
	MA.7.AR.2.2	10.7 Solving Equations Involving the Distributive Property
	MA.7.AR.2.2	10.8 Solving Real-World Problems with Two-Step Equations
	MA.7.AR.2.2	10.9 Writing Two-Step Equations from Real-World Contexts
	MA.7.AR.2.2	10.10 Writing and Solving Equations in Real-World Context
		Review Unit 10
		Unit 10 Assessment
		<i>Approximately 10 Days Total</i>

Unit 11: Representing Proportional Relationships

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 26-27 February 12-23	MA.7.AR.4.3	11.1 Graphing Proportional Relationships
	MA.7.AR.4.2, MA.7.AR.4.3	11.2 Constant of Proportionality - Part 1
	MA.7.AR.4.2	11.3 Constant of Proportionality - Part 2
	MA.7.AR.4.1	11.4 Features of Proportional Relationships
	MA.7.AR.4.1, MA.7.AR.4.2	11.5 Is it Proportional?
	MA.7.AR.4.2, MA.7.AR.4.4	11.6 Representing Proportional Relationships with Equations
	MA.7.AR.4.2, MA.7.AR.4.4	11.7 Translating Between Representations of Proportional Relationships
	MA.7.AR.4.1, MA.7.AR.4.2, MA.7.AR.4.3, MA.7.AR.4.4	11.8 Putting it All Together
	MA.7.GR.1.3, MA.7.GR.1.4	11.9 Revisiting Relationships in Circles
		Review Unit 11
	Unit 11 Assessment	
	<i>Approximately 9 Days Total</i>	

Unit 12: Surface Area and Volume

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 28-29	MA.7.GR.2.1	12.1 Finding Surface Area of Right Circular Cylinders Using Nets

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February 26- March 8	MA.7.GR.2.1, MA.7.GR.2.2	12.2 Finding Surface Area of Right Circular Cylinders
	MA.7.GR.2.1, MA.7.GR.2.2	12.3 Solving Problems Involving Surface Area of Right Circular Cylinders
	MA.7.GR.2.3	12.4 Volume of Right Circular Cylinders - Part 1
	MA.7.GR.2.3	12.5 Volume of Right Circular Cylinders - Part 2
	MA.7.GR.2.3	12.6 Problem-Solving with Volume of Cylinders
		Review Unit 12
		Unit 12 Assessment
		<i>Approximately 10 Days Total</i>

Unit 13: Numerical and Categorical Data

Weeks	Focus Benchmark(s)	Lesson/Topic
Weeks 30-31 March 11-29	MA.7.DP.1.1	13.1 Effects of Outliers
	MA.7.DP.1.1	13.2 Justifying Measures of Center and Spread
	MA.7.DP.1.1	13.3 Determining Appropriate Measures of Center and Variation
	MA.7.DP.1.2	13.4 Comparing Graphical Representations
	MA.7.DP.1.2	13.5 Comparing Data Sets
	MA.7.DP.1.2	13.6 Comparing Data Sets and Graphs
	MA.7.DP.1.5	13.7 Representing Real-World Contexts with Graphs
	MA.7.DP.1.5	13.8 Creating Displays for Numerical Data
	MA.7.DP.1.5	13.9 Creating Displays for Categorical Data
		Review Unit 13
		Unit 13 Assessment
		<i>Approximately 8 Days Total</i>