

Pacing Calendar

Unit 1: Foundations			
Day	Date	Focus Benchmark(s)	Lesson/Topic
	08/14	MA.7.NSO.1.2 (Review)	1.1 Rewriting Rational Numbers in Equivalent Forms
	08/15	MA.7.NSO.1.1 (Review)	1.2 Applying the Laws of Exponents – Part 1
	08/16	MA.7.NSO.1.1 (Review)	1.3 Applying the Laws of Exponents – Part 2
W1-1	08/19	MA.7.NSO.2.1 (Review)	1.4 Evaluating Numeric Expressions – Part 1
W1-2	08/20	MA.7.NSO.2.1 (Review)	1.5 Evaluating Numeric Expressions – Part 2
W1-3	08/21	MA.7.AR.2.2 (Review)	1.6 Writing and Solving Two-Step Equations
W1-4	08/22		Review Unit 1
W1-5	08/23		Unit 1 Assessment
Unit 2: Rational and Irrational Numbers			
Day	Date	Focus Benchmark(s)	Lesson/Topic
W2-1	08/26	MA.8.AR.2.3	2.1 Square Values
W2-2	08/27	MA.8.NSO.1.1, MA.8.AR.2.3	2.2 Square Values and Square Roots
W2-3	08/28	MA.8.AR.2.3	2.3 Cube Values
W2-4	08/29	MA.8.NSO.1.1, MA.8.AR.2.3	2.4 Square Roots and Cube Roots
W2-5/W3-1	08/30 – 09/03	MA.8.NSO.1.1, MA.8.NSO.1.2	2.5 Approximating Irrational Numbers
W3-2/3/4	09/04 – 09/05	MA.8.NSO.1.2	2.6 Rational and Irrational Numbers on the Number Line
W3-5/W4-1	09/06 – 09/09	MA.8.NSO.1.2	2.7 Plotting, Ordering, and Comparing Real Numbers
W4-2	09/10		Review Unit 2
W4-3	09/11		Unit 2 Assessment
Unit 3: Scientific Notation			
Day	Date	Focus Benchmark(s)	Lesson/Topic
W4-4/5	09/12 – 09/13	MA.8.NSO.1.3	3.1 Powers of 10
W5-1/2	09/16 – 09/17	MA.8.NSO.1.4	3.2 Writing Large Numbers Using Scientific Notation
W5-3/4/5	09/18 – 09/20	MA.8.NSO.1.3	3.3 More with Powers of 10

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W6-1/2	09/23 – 09/24	MA.8.NSO.1.4	3.4 Writing Small Numbers in Scientific Notation
W6-3/4	09/25 – 09/26	MA.8.NSO.1.5, MA.8.NSO.1.6	3.5 Adding and Subtracting Numbers Expressed in Scientific Notation
W6-5/W7-1	09/27 – 09/30	MA.8.NSO.1.5	3.6 Multiplying Numbers Expressed in Scientific Notation
W7-2/3	10/01 – 10/02	MA.8.NSO.1.5, MA.8.NSO.1.6	3.7 Dividing Numbers Expressed in Scientific Notation
W7-4/5	10/03 – 10/04	MA.8.NSO.1.6	3.8 Solving Real-World Problems Involving Numbers Expressed in Scientific Notation
W8-1	10/07		Review Unit 3
W8-2	10/08		Unit 3 Assessment

Unit 4: Equivalent Numerical Expressions

Day	Date	Focus Benchmark(s)	Lesson/Topic
W8-3/4	10/09 – 10/10	MA.8.NSO.1.3	4.1 Negative Exponent Law
W8-5/W09-1	10/11 – 10/15	MA.8.NSO.1.3	4.2 Generating Equivalent Numerical Expressions
W9-2/3/4	10/16 – 10/17	MA.8.NSO.1.3	4.3 Applying Exponent Laws
W9-5/W10-1	10/18 – 10/21	MA.8.NSO.1.3	4.4 Evaluating Numerical Expressions with Integer Exponents – Part 1
W10-2/3	10/22 – 10/23	MA.8.NSO.1.3	4.5 Evaluating Numerical Expressions with Integer Exponents – Part 2
W10-4/5	10/24 – 10/25	MA.8.NSO.1.3	4.6 Equivalent Expressions
W11-1/2	10/28 – 10/29	MA.8.AR.1.1	4.7 Applying Exponent Laws to Algebraic Expressions – Part 1
W11-3/4	10/30 – 10/31	MA.8.AR.1.1	4.8 Applying Exponent Laws to Algebraic Expressions – Part 2
W11-5/W12-1	11/01 – 11/04	MA.8.AR.1.1	4.9 Algebraic Expressions with Negative Exponents
W12-2/3	11/05 – 11/06	MA.8.AR.1.1	4.10 Applying Multiple Laws of Exponents - Part 1
W12-4/5	11/07 – 11/08	MA.8.AR.1.1	4.11 Applying Multiple Laws of Exponents - Part 2
W13-1/2	11/12		Review Unit 4
W13-3	11/13		Unit 4 Assessment

Unit 5: Relationships in Triangles

Day	Date	Focus Benchmark(s)	Lesson/Topic
W13-4	11/14	MA.8.AR.2.2	5.1 Determining Solutions to Inequalities
W13-5	11/15	MA.8.AR.2.2	5.2 Solving Inequalities – Part 1
W14-1	11/18	MA.8.AR.2.2	5.3 Solving Inequalities – Part 2

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W14-2/3	11/19 – 11/20	MA.8.GR.1.3	5.4 The Triangle Inequality Theorem and the Converse of the Pythagorean Theorem
W14-4/5	11/21 – 11/22	MA.8.GR.1.3	5.5 Applying the Triangle Inequality Theorem
W15-1/2	12/02 -12/03	MA.8.GR.1.1	5.6 Pythagorean Theorem
W15-3/4	12/04 – 12/05	MA.8.GR.1.1	5.7 Using the Pythagorean Theorem to Solve Real-World Problems
W15-5/W16-1	12/06 – 12/09	MA.8.GR.1.2	5.8 Triangles on the Coordinate Plane
W16-2/3	12/10 – 12/11	MA.8.GR.1.2	5.9 Finding Distances on a Coordinate Plane
W16-4/5	12/12 - 12/13	MA.8.GR.1.2	5.10 Solving Real-World Problems on a Coordinate Plane with the Pythagorean Theorem
W17-1/2	12/16 – 12/17		Review Unit 5
W17-3/4/5	12/18 – 12/19		Unit 5 Assessment

Unit 6: Linear Relationships

Day	Date	Focus Benchmark(s)	Lesson/Topic
W18-1/2	01/07	MA.8.AR.3.1	6.1 Proportional Relationships
W18-3	01/08	MA.8.AR.3.1	6.2 Graphs of Proportional Relationships
W18-4	01/9	MA.8.AR.3.1	6.3 Determining Proportional Relationships
W18-5	01/10	MA.8.AR.3.2	6.4 Exploring Slope
W19-1	01/13	MA.8.GR.2.4	6.5 Proportional Relationships and Similar Triangles
W19-2	01/14	MA.8.GR.2.4	6.6 Solving Real-World Problems Using Similar Triangles
W19-3	01/15	MA.8.GR.2.4	6.7 Applying Similar Triangles to Solve Real-World Problems
W19-4	01/16		Review Unit 6
W19-5	01/17		Unit 6 Assessment

Unit 7: Key Features of Linear Equations

Day	Date	Focus Benchmark(s)	Lesson/Topic
W20-1/2/3	01/21 – 01/22	MA.8.AR.3.2	7.1 Finding Slope Using Graphs and Tables
W20-4/5	01/23 – 01/24	MA.8.AR.3.2, MA.8.AR.3.5	7.2 Slope in Real-World Contexts
W21-1/2	01/27 – 01/28	MA.8.AR.3.2, MA.8.AR.3.4	7.3 Exploring Equations of Lines and Their Corresponding Graphs
W21-3/4	01/29 – 01/30	MA.8.AR.3.4	7.4 Graphing Lines from Slope-Intercept Form
W21-5/W22-1	01/31 – 02/03	MA.8.AR.3.4	7.5 Graphing Lines for Real-World Contexts

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W22-2/3	02/04 – 02/05	MA.8.AR.3.5	7.6 Interpreting Linear Relationships from Graphs and Equations
W22-4/5	02/06 – 02/07	MA.8.AR.3.5	7.7 Interpreting Linear Relationships from Tables and Written Descriptions
W23-1/2	02/10 – 02/11	MA.8.AR.3.2, MA.8.AR.3.3	7.8 Writing Equations of Linear Relationships
W23-3/4	02/12 – 02/13	MA.8.AR.3.3	7.9 Writing Equations for Real-World Contexts
W23-5/W24-1	02/14 – 02/18		Review Unit 7
W24-2	02/19		Unit 7 Assessment

Unit 8: Solving Equations and Systems of Equations

Day	Date	Focus Benchmark(s)	Lesson/Topic
W24-3/4	02/20	MA.8.AR.2.1	8.1 Solving Equations
W24-5/W25-1	02/21 – 02/24	MA.8.AR.2.1	8.2 Solving Real-World, Multi-Step Equations
W24-5/W25-1	02/21 – 02/24	MA.8.AR.2.1	8.6 Solving Multi-Step Equations
W25-2	02/25	MA.8.AR.2.1	8.3 Solving Equations with Variables on Both Sides
W25-2	02/25	MA.8.AR.2.1	8.5 Solving Real-World Equations with Variables on Both Sides
W25-3/4	02/26 – 02/27	MA.8.AR.2.1	8.4 Solutions to Linear Equations
W25-5/W26-1	02/28 – 03/03	MA.8.AR.4.1, MA.8.AR.4.2	8.7 Introduction to Systems of Two Linear Equations
W25-5/W26-1	02/28 – 03/03	MA.8.AR.4.1, MA.8.AR.4.2	8.8 Solutions to Systems of Equations
W26-2/3	03/04 – 03/05	MA.8.AR.4.3	8.9 Solving Systems by Graphing
W26-2/3	03/04 – 03/05	MA.8.AR.4.3	8.10 Solving Systems of Equations by Graphing for Real-World Contexts
W26-4	03/06		Review Unit 8
W26-5	03/07		Unit 8 Assessment

Unit 9: Transformations

Day	Date	Focus Benchmark(s)	Lesson/Topic
W27-1/2	03/10 – 03/11	MA.8.GR.2.1	9.1 Slides, Flips, and Spins
W27-1/2	03/10 – 03/11	MA.8.GR.2.1	9.2 Reflections and Rotations
W27-1/2	03/10 – 03/11	MA.8.GR.2.3	9.4 Reflections on the Coordinate Plane
W27-1/2	03/10 – 03/11	MA.8.GR.2.1, MA.8.GR.2.3	9.3 Translations
W27-3/4	03/12 – 03/13	MA.8.GR.2.3	9.5 Rotations on the Coordinate Plane

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W27-5	03/14	MA.8.GR.2.1, MA.8.GR.2.3	9.6 Describing Rigid Transformations
W28-1	03/25	MA.8.GR.2.2	9.7 Dilations
W28-1	03/25	MA.8.GR.2.2, MA.8.GR.2.3	9.8 Dilations on the Coordinate Plane
W28-1	03/25	MA.8.GR.2.2, MA.8.GR.2.3, MA.8.GR.2.4	9.9 Scale Factors of Dilations
W28-2	03/26	MA.8.GR.2.4	9.10 Similar Triangles and Dilations in the Real World
W28-3/4	03/27		Review Unit 9
W28-5	03/28		Unit 9 Assessment

Unit 10: Functions

Day	Date	Focus Benchmark(s)	Lesson/Topic
W32-5	04/25	MA.8.F.1.1	10.1 Exploring Relations
W32-5	04/25	MA.8.F.1.1	10.2 Identifying Domain and Range
W32-5	04/25	MA.8.F.1.1	10.3 Relations and Functions
W32-5	04/25	MA.8.F.1.1	10.4 Is it a Function?
W33-1	04/28	MA.8.F.1.3	10.5 Interpreting Graphs of Functions
W33-1	04/28	MA.8.F.1.3	10.6 Sketching Graphs of Functions
W33-1	04/28	MA.8.F.1.3	10.7 Analyzing Descriptions and Graphs
W33-2	04/29	MA.8.F.1.2, MA.8.AR.2.3	10.8 Exploring Functions Using Equations, Tables, and Graphs
W33-2	04/29	MA.8.F.1.1, MA.8.F.1.2	10.9 Is it Linear?
W33-2	04/29	MA.8.F.1.2	10.10 Using Tables to Determine if a Function is Linear
W33-3	04/30		Review Unit 10
W33-4	05/01		Unit 10 Assessment

Unit 11: Scatter Plots

Day	Date	Focus Benchmark(s)	Lesson/Topic
W29-1	03/31	MA.8.DP.1.1	11.1 Representing Bivariate Data
W29-2	04/01	MA.8.DP.1.1	11.2 Constructing Line Graphs
W29-3	04/02	MA.8.DP.1.1, MA.8.DP.1.2	11.3 Constructing Scatter Plots
W29-4	04/03	MA.8.DP.1.2, MA.8.DP.1.3	11.4 Informally Fitting a Line to Bivariate Data
W29-5	04/04	MA.8.DP.1.2, MA.8.DP.1.3	11.5 Scatter Plots and Lines of Fit

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W30-1	04/07	MA.8.AR.3.5, MA.8.DP.1.2	11.6 Interpreting Linear Equations Fit to Bivariate Data
		MA.8.DP.1.1	11.7 Barbie Bungee - Part 1
		MA.8.DP.1.1, MA.8.DP.1.2, MA.8.DP.1.3, MA.8.AR.3.5	11.8 Barbie Bungee - Part 2
W30-2	04/08		Review Unit 11
W30-3	04/09		Unit 11 Assessment
Unit 12: Equivalent Algebraic Expressions			
Day	Date	Focus Benchmark(s)	Lesson/Topic
W30-4	04/10	MA.8.AR.1.2	12.1 Applying the Distributive Property with Variables
W30-5	04/11	MA.8.AR.1.1, MA.8.AR.1.2	12.2 Multiplying Monomials by Algebraic Expressions
W31-1	04/14	MA.8.AR.1.1, MA.8.AR.1.2	12.3 Multiplying Algebraic Expressions
W31-2	04/15	MA.8.AR.1.3	12.4 Factoring Expressions
W31-3	04/16	MA.8.AR.1.3	12.5 Factoring Common Monomial Factors
W31-4	04/17	MA.8.AR.1.3	12.6 Rewriting Expressions with Common Monomial Factors
W31-5	04/18	MA.8.NSO.1.7	12.7 Evaluating Expressions with Radicals
W32-1	04/21	MA.8.NSO.1.7	12.8 Evaluating Expressions Using the Order of Operations
W32-1	04/21	MA.8.NSO.1.7	12.9 Evaluating Real-World Problems Using the Order of Operations – Part 1
W32-1	04/21	MA.8.NSO.1.7	12.10 Evaluating Real-World Problems Using the Order of Operations – Part 2
W32-2/3	04/22 – 04/23		Review Unit 12
W32-4	04/24		Unit 12 Assessment
Unit 13: Properties and Theorems of Angles			
Day	Date	Focus Benchmark(s)	Lesson/Topic
W33-5	05/02	MA.8.GR.1.4	13.1 Angle Relationships
W34-1	05/05	MA.8.GR.1.4	13.2 Solving for Unknown Angles
W34-2	05/06	MA.8.GR.1.5	13.3 Angle Relationships in Triangles
W34-3	05/07	MA.8.GR.1.5	13.4 Solving for Unknown Angles in Triangles
W34-4	05/08	MA.8.GR.1.6	13.5 Interior Angles of a Polygon
W34-5	05/09	MA.8.GR.1.6	13.6 Interior Angles of a Regular Polygon

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W35-1	05/12	MA.8.GR.1.6	13.7 Finding Missing Angles in Polygons
W35-2	05/13		Review Unit 13
W35-3	05/14		Unit 13 Assessment
Unit 14: Probability			
Day	Date	Focus Benchmark(s)	Lesson/Topic
W35-4	05/15	MA.8.DP.2.1	14.1 Determining Sample Space Using Lists and Tree Diagrams
W35-4	05/15	MA.8.DP.2.1	14.2 Determining Sample Space Using Outcome Tables
W35-5	05/16	MA.8.DP.2.1, MA.8.DP.2.2	14.3 Calculating Theoretical Probability
W35-5	05/16	MA.8.DP.2.1, MA.8.DP.2.2	14.4 Comparing Theoretical Probability to Experimental Probability
W35-5	05/16	MA.8.DP.2.2	14.5 Calculating Theoretical Probability of Compound Events
W36-1	05/19	MA.8.DP.2.3	14.6 Applying Proportional Reasoning to Probability
W36-2	05/20	MA.8.DP.2.1, MA.8.DP.2.2, MA.8.DP.2.3	14.7 Solving Problems Using Probability
W36-3	05/21	MA.8.DP.2.1, MA.8.DP.2.2, MA.8.DP.2.3	14.8 Making Predictions
W36-4	05/22		Review Unit 14
W37-5	05/23		Unit 14 Assessment