

Unit 1: Introduction to Functions				
Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
Z	August 11	MA.912.F.1.1	1.1 Classifying Parent Functions	8.F.1.1: Unit 10 – Lesson 1, 2, 3, 4, 9
F	August 12	MA.912.F.1.2	1.2 Evaluating Functions in Function Notation	8.F.1.1: Unit 10 – Lesson 1, 2, 3, 4, 9
M	August 15	MA.912.F.1.2	1.3 Interpreting Function Notation in the Real World	8.F.1.1: Unit 10 – Lesson 1, 2, 3, 4, 9
T	August 16	MA.912.NSO.1.1	1.4 Applying the Laws of Exponents	8.NSO.1.3: Unit 4 – Lesson 1, 2, 3, 4, 5
W	August 17	MA.912.NSO.1.1	1.5 Exploring Rational Exponents	8.NSO.1.3: Unit 4 – Lesson 1, 2, 3, 4, 5
Z	August 18	MA.912.NSO.1.1	1.6 Writing Equivalent Expressions Using Rational Exponents	8.NSO.1.3: Unit 4 – Lesson 1, 2, 3, 4, 5
F	August 19	MA.912.NSO.1.1	1.7 Evaluating Exponential Expressions	8.NSO.1.3: Unit 4 – Lesson 1, 2, 3, 4, 5
M	August 22	MA.912.NSO.1.4	1.8 Equivalent Radical Expressions	8.NSO.1.7: Unit 12 – Lesson 7, 8, 9, 10
T	August 23	MA.912.NSO.1.4	1.9 Adding and Subtracting Radical Expressions	8.NSO.1.7: Unit 12 – Lesson 7, 8, 9, 10
W	August 24	MA.912.NSO.1.4	1.10 Multiplying and Dividing Radical Expressions	8.NSO.1.7: Unit 12 – Lesson 7, 8, 9, 10
Z	August 25		Review Unit 1	
F	August 26		Unit 1 Assessment	
Unit 2: Algebraic Expressions				
Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
M	August 29	MA.912.NSO.1.2	2.1 Applying Product Laws of Exponents to Algebraic Expressions	Unit 4
T	August 30	MA.912.NSO.1.2	2.2 Applying Quotient Laws of Exponents to Algebraic Expressions	Unit 4
W	August 31	MA.912.NSO.1.2	2.3 Applying Exponent Laws to Generate Equivalent Algebraic Expressions	Unit 4
Z	Sep 1	MA.912.AR.1.3	2.4 Introducing Polynomials	Unit 12
F	Sep 2	MA.912.AR.1.3	2.5 Adding and Subtracting Polynomials	Unit 12

2022-2023

## Algebra 1

1200310

T	Sep 6	MA.912.AR.1.3	2.6 Multiplying Binomials with Algebra Tiles	Unit 12
W	Sep 7	MA.912.AR.1.3	2.7 Multiplying Binomials and Polynomials	Unit 12
Z	Sep 8	MA.912.AR.1.3	2.8 Adding, Subtracting, and Multiplying Polynomials Using More Than One Operation	Unit 12
F	Sep 9	MA.912.AR.1.4	2.9 Dividing Polynomials	Unit 12
M	Sep 12		Review Unit 2	
T	Sep 13		Unit 2 Assessment	
<b>Unit 3: Linear Functions</b>				
Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
W	Sep 14	Review Day/Makeup	Half Day for Students	
Z	Sep 15	MA.912.AR.1.2, MA.912.F.1.5	3.1 Rearranging Equations of Lines	8.AR.2.1: Unit 8 – Lesson 1, 2, 3, 4, 5, 6 8.F.1.2: Unit 10 – Lesson 1, 2, 3, 4, 9
F	Sep 16	MA.912.AR.2.2, MA.912.AR.1.2	3.2 Writing Equations of Lines	8.AR.2.1: Unit 8 – Lesson 1, 2, 3, 4, 5, 6 8.AR.3.2 & 8.AR.3.3: Unit 6- Lesson 4, 7 & Unit 7 – 1, 2, 3
M	Sep 19	MA.912.AR.2.2, MA.912.AR.1.2	3.3 Writing Equations of Lines from Tables or Graphs	8.AR.2.1: Unit 8 – Lesson 1, 2, 3, 4, 5, 6 8.AR.3.2 & 8.AR.3.3: Unit 6- Lesson 4, 7 & Unit 7 – 1, 2, 3
T	Sep 20	MA.912.AR.2.2, MA.912.AR.1.2	3.4 Writing Equations of Lines from Written Descriptions	8.AR.2.1: Unit 8 – Lesson 1, 2, 3, 4, 5, 6 8.AR.3.2 & 8.AR.3.3: Unit 6- Lesson 4, 7 & Unit 7 – 1, 2, 3
W	Sep 21		Unit 3 Assessment – Part 1	
Z	Sep 22	MA.912.DP.2.4	3.5 Scatter Plots and Linear Relationships	8.DP.1.2: Unit 11 – Lesson 3, 4, 5, 6, 8
F	Sep 23	MA.912.DP.2.4	3.6 Fitting Linear Functions to Data	8.DP.1.2: Unit 11 – Lesson 3, 4, 5, 6, 8
M	Sep 26	MA.912.DP.2.4	3.7 Interpreting Linear Models	8.DP.1.2: Unit 11 – Lesson 3, 4, 5, 6, 8
T	Sep 27	MA.912.DP.2.6	3.8 Analyzing Residuals	8.DP.1.2: Unit 11 – Lesson 3, 4, 5, 6, 8
W	Sep 28		Review Unit 3	
Z	Sep 29		Unit 3 Assessment – Part 2	
<b>Unit 4: Key Features of Linear Functions</b>				
Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
F	Sep 30	MA.912.F.1.5	4.1 Understanding Set-Builder Notation	8.F.1.1: Unit 10- Lesson 1, 2, 3, 4, 9
M	Oct 3	MA.912.AR.2.4	4.2 Identifying Key Features of Lines from Graphs	8.AR.4.3: Unit 7 – Lesson 3, 4, 5

**2022-2023****Algebra 1****1200310**

T	Oct 4	MA.912.AR.2.4	4.3 Identifying Key Features of Lines from Tables and Equations	8.AR.4.3: Unit 7 – Lesson 3, 4, 5
W	Oct 5	MA.912.AR.2.4	4.4 Relating Key Features of Lines to Real-World Contexts	8.AR.4.3: Unit 7 – Lesson 3, 4, 5
Z	Oct 6	MA.912.AR.2.4	4.5 Graphing and Interpreting Key Features of Lines	8.AR.4.3: Unit 7 – Lesson 3, 4, 5 8.AR.3.5: Unit 7 – Lesson 2, 6, 7 & Unit 11 – 6, 8
F	Oct 7	MA.912.AR.2.5, MA.912.F.1.2	4.6 Determining Constraints	8.AR.4.3: Unit 7 – Lesson 3, 4, 5 8.AR.3.5: Unit 7 – Lesson 2, 6, 7 & Unit 11 – 6, 8
M	Oct 10	MA.912.AR.2.5	4.7 Solving Problems Modeled with Linear Functions	8.AR.4.3: Unit 7 – Lesson 3, 4, 5 8.AR.3.5: Unit 7 – Lesson 2, 6, 7 & Unit 11 – 6, 8
T	Oct 11	MA.912.F.1.5	4.8 Comparing Linear Functions	8.AR.3.5: Unit 7 – Lesson 2, 6, 7 & Unit 11 – 6, 8
W	Oct 12	MA.912.AR.2.3	4.9 Discovering Relationships of Parallel and Perpendicular Lines	8.AR.4.3: Unit 8 – Lesson 1, 2, 3, 4, 5, 6
Z	Oct 13	MA.912.AR.2.3	4.10 Writing Equations of Parallel Lines	8.AR.4.3: Unit 8 – Lesson 1, 2, 3, 4, 5, 6
F	Oct 14	MA.912.AR.2.3	4.11 Writing Equations of Perpendicular Lines	8.AR.4.3: Unit 8 – Lesson 1, 2, 3, 4, 5, 6
T	Oct 18	MA.912.AR.2.3	4.12 Writing Equations of Parallel and Perpendicular Lines	8.AR.4.3: Unit 8 – Lesson 1, 2, 3, 4, 5, 6
W	Oct 19		Review Unit 4	
Z	Oct 20		Unit 4 Assessment	

**Unit 5: Solving Equations**

Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
F	Oct 21	MA.912.AR.2.1	5.1 Solving Multi-Step Equations	7.AR.2.2: Unit 1- Lesson 5, 6 & Unit 10 – Lesson 5, 6, 7
M	Oct 24	MA.912.AR.2.1, MA.912.AR.1.2	5.2 Solving Equations and Rearranging Formulas	7.AR.2.2: Unit 1- Lesson 5, 6 & Unit 10 – Lesson 5, 6, 7 8.AR.2.1: Unit 8 – Lesson 1, 2, 3, 4, 5, 6
T	Oct 25	MA.912.AR.2.1, MA.912.AR.1.2, MA.912.AR.9.6	5.3 Interpreting Equations	8.AR.2.1: Unit 8 – Lesson 1, 2, 3, 4, 5, 6
W	Oct 26	MA.912.AR.2.1	5.4 Writing and Solving Real-World Equations	7.AR.2.2: Unit 1- Lesson 5, 6 & Unit 10 – Lesson 5, 6, 7
Z	Oct 27	MA.912.AR.2.1, MA.912.AR.9.6	5.5 Equations and Solutions in the Real World	7.AR.2.2: Unit 1- Lesson 5, 6 & Unit 10 – Lesson 5, 6, 7
F	Oct 28	MA.912.AR.9.1	5.6 Exploring Solutions to Systems of Equations	8.AR.4.2: Unit 8 – Lesson 7, 8 8.AR.4.3: Unit 8 – Lesson 9, 10

2022-2023

## Algebra 1

1200310

M	Oct 31	MA.912.AR.9.1, MA.912.AR.9.6	5.7 Solving Systems of Equations by Graphing	8.AR.4.2: Unit 8 – Lesson 7, 8 8.AR.4.3: Unit 8 – Lesson 9, 10
T	Nov 1	MA.912.AR.9.1, MA.912.AR.9.6	5.8 Solving Systems of Equations by Substitution	8.AR.4.2: Unit 8 – Lesson 7, 8 8.AR.4.3: Unit 8 – Lesson 9, 10
W	Nov 2	MA.912.AR.9.1	5.9 Solving Systems of Equations by Elimination	8.AR.4.2: Unit 8 – Lesson 7, 8 8.AR.4.3: Unit 8 – Lesson 9, 10
Z	Nov 3	MA.912.AR.9.1, MA.912.AR.9.6	5.10 Solving Systems of Equations by Elimination and Interpreting Solutions	8.AR.4.2: Unit 8 – Lesson 7, 8 8.AR.4.3: Unit 8 – Lesson 9, 10
F	Nov 4	MA.912.AR.9.1, MA.912.AR.9.6	5.11 Writing and Solving Systems of Equations for Real-World Contexts	8.AR.4.2: Unit 8 – Lesson 7, 8 8.AR.4.3: Unit 8 – Lesson 9, 10
M	Nov 7		Review Unit 5	
T	Nov 8		Unit 5 Assessment	

## Unit 6: Linear Inequalities

Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
W	Nov 9	MA.912.AR.2.6	6.1 Solving Linear Inequalities in One Variable	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
Z	Nov 10	MA.912.AR.2.6	6.2 Solving Compound Inequalities	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
M	Nov 14	MA.912.AR.2.6	6.3 Writing and Solving Inequalities	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
T	Nov 15	MA.912.AR.2.6, MA.912.AR.2.8	6.4 Connecting One-Variable Inequalities to Two-Variable Inequalities	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
W	Nov 16		Review Unit 6- Part 1	
Z	Nov 17		Unit 6 Assessment- Part 1	
F	Nov 18		Continuing Assessment Part 1, Make Up Day	
M	Nov 28	MA.912.AR.2.8	6.5 Graphing Two-Variable Linear Inequalities	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
T	Nov 29	MA.912.AR.2.8, MA.912.AR.9.6	6.6 Graphing Two-Variable Linear Inequalities for a Real-World Context	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
W	Nov 30	MA.912.AR.2.7	6.7 Writing Two-Variable Linear Inequalities	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
Z	Dec 1	MA.912.AR.2.7, MA.912.AR.9.6	6.8 Writing a Two-Variable Linear Inequality to Represent a Real-World Context	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
F	Dec 2	MA.912.AR.9.4	6.9 Exploring Systems of Linear Inequalities	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
M	Dec 5	MA.912.AR.9.4	6.10 Graphing Systems of Linear Inequalities	8.AR.2.2: Unit 5 – Lesson 1, 2, 3
T	Dec 6		Review Unit 6	
W	Dec 7		Unit 6 Assessment	

## Unit 7: Rewriting Polynomial Expressions

Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
-----	------	--------------------	--------------	--

**2022-2023****Algebra 1****1200310**

Z	Dec 8	MA.8.AR.1.3	8 <sup>th</sup> Grade: Unit 12- Lesson 4, 5, 6 Common Monomial Factors	
F	Dec 9	MA.912.AR.1.7	7.1 Factoring and the Distributive Property	<i>USE FOR ALL OF UNIT 7</i> 8.AR.1.3: Unit 12- Lesson 4, 5, 6
M	Dec 12	MA.912.AR.1.7	7.2 Factoring a Trinomial with Algebra Tiles	
T	Dec 13	MA.912.AR.1.7	7.3 Factoring a Trinomial with a Leading Coefficient of 1	
W	Dec 14	MA.912.AR.1.7	7.4 Factoring a Trinomial with a Leading Coefficient Greater Than 1	
Z	Dec 15	MA.912.AR.1.7	7.5 Factoring Trinomials	
F	Dec 16	MA.912.AR.1.7	7.6 Factoring by Grouping	
M	Dec 19	MA.912.AR.1.7	7.7 Factoring Perfect Square Trinomials	
T	Dec 20	MA.912.AR.1.7	7.8 Factoring Difference of Two Squares	
W	Dec 21		Review Unit 7	
Z	Dec 22		Unit 7 Assessment	

**Unit 8: Quadratic Functions**

Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
T	Jan 10	MA.912.AR.3.7	8.1 Identifying Key Features of Quadratic Functions	NA
W	Jan 11	MA.912.AR.3.7	8.2 More Key Features of Quadratic Functions	NA
Z	Jan 12	MA.912.AR.3.6, MA.912.AR.3.7, MA.912.AR.1.2	8.3 Rewriting Quadratic Equations	NA
F	Jan 13	MA.912.AR.3.7, MA.912.AR.3.6	8.4 Graphing Quadratic Equations from Key Features	NA
T	Jan 17	MA.912.AR.3.6, MA.912.AR.1.2	8.5 Completing the Square when $a = 1$ Using Algebra Tiles	NA
W	Jan 18	MA.912.AR.3.6, MA.912.AR.1.2	8.6 Completing the Square when $a > 1$ Using Algebra Tiles	NA
Z	Jan 19	MA.912.AR.3.6, MA.912.AR.1.2	8.7 Completing the Square Algebraically	NA
F	Jan 20	MA.912.AR.3.8, MA.912.AR.3.6, MA.912.AR.9.6	8.8 Modeling with Quadratics in the Real World	NA
M	Jan 23	MA.912.AR.3.8, MA.912.AR.3.6, MA.912.AR.9.6	8.9 Using Key Features to Solve Problems	NA

T	Jan 24		Review Unit 8	
W	Jan 25		Unit 8 Assessment	

### Unit 9: Writing and Solving Quadratic Equations

Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
Z	Jan 26	MA.912.AR.3.5, MA.912.AR.1.2	9.1 Writing a Quadratic Equation Given $x$ -Intercepts and a Point	<i>USE FOR ALL OF UNIT 9</i> 8.AR.2.1: Unit 8 – Lesson 1, 2, 3, 4, 5, 6 8.AR.2.3: Unit 2 – Lesson 1, 2, 3, 4
F	Jan 27	MA.912.AR.3.4, MA.912.AR.1.2	9.2 Writing a Quadratic Function from a Graph	
M	Jan 30	MA.912.AR.3.4, MA.912.AR.1.2	9.3 Writing a Quadratic Function from a Table	
T	Jan 31	MA.912.AR.3.4, MA.912.AR.1.2	9.4 Writing a Quadratic Function from a Written Description	
W	Feb 1		Unit 9 Assessment – Part 1	
Z	Feb 2	MA.912.AR.3.1, MA.912.AR.9.6	9.5 Solving Quadratics Using Square Roots	
F	Feb 3	MA.912.AR.3.1, MA.912.AR.9.6	9.6 Solving Quadratic Equations by Completing the Square	
M	Feb 6	MA.912.AR.3.1	9.7 Solving Quadratics by Factoring	
T	Feb 7	MA.912.AR.1.2	9.8 Isolating a Quantity of Interest in a Quadratic Equation	
W	Feb 8	MA.912.AR.3.1	9.9 Solving Quadratics Using the Quadratic Formula	
Z	Feb 9	MA.912.AR.3.1, MA.912.AR.9.6	9.10 Applying Different Methods of Solving a Quadratic	
F	Feb 10	MA.912.AR.3.1, MA.912.AR.9.6	9.11 Writing and Solving Quadratic Equations	
M	Feb 13		Review Unit 9	
T	Feb 14		Unit 9 Assessment – Part 2	

### Unit 10: Absolute Value Functions

Day	Date	Focus Benchmark(s)	Lesson/Topic	7 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
W	Feb 15	MA.912.AR.4.3	10.1 Graphing Absolute Value Functions	7.NSO.2.1: Unit 8 – Lesson 4, 5, 6 ( <i>see 7<sup>th</sup> Grade curriculum</i> )
Z	Feb 16	MA.912.AR.4.3	10.2 Interpreting Key Features of Absolute Value Functions	

**2022-2023****Algebra 1****1200310**

F	Feb 17	MA.912.AR.4.1	10.3 Exploring Absolute Value Equations	
T	Feb 21	MA.912.AR.4.1	10.4 Writing and Solving Absolute Value Equations	
W	Feb 22		Review Unit 10	
Z	Feb 23		Unit 10 Assessment	

## Unit 11: Exponential Functions

Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
F	Feb 24	MA.912.AR.5.3	11.1 Exploring Exponential Growth Versus Decay	NA
M	Feb 27	MA.912.AR.5.6, MA.912.AR.5.3	11.2 Key Features of Exponential Functions	NA
T	Feb 28	MA.912.AR.5.6, MA.912.AR.5.3	11.3 Graphing Exponential Functions Given an Equation	NA
W	March 1	MA.912.AR.5.6, MA.912.AR.5.3	11.4 Graphing Exponential Functions Given a Written Description and Equation	NA
Z	March 2	MA.912.AR.5.4	11.5 Writing Exponential Functions from a Graph or Table	NA
F	March 3	MA.912.AR.5.4, MA.912.AR.5.3	11.6 Writing Exponential Functions from a Written Description	NA
M	March 6		Review Unit 11	
T	March 7		Unit 11 Assessment	

## Unit 12: Data Displays

Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
W	March 8	MA.912.DP.1.1, MA.912.DP.1.2	12.1 Displaying Univariate Data	USE FOR ALL OF UNIT 12 8.DP.1.1: Unit 11 7.DP.1.3: Unit 5 (see 7 <sup>th</sup> Grade curriculum)
Z	March 9	MA.912.DP.1.1, MA.912.DP.1.2	12.2 Creating Displays for Numerical Data Sets	
F	March 10	MA.912.DP.1.1, MA.912.DP.1.2	12.3 Interpreting Data Distributions for Numerical Data	
M	March 13	MA.912.DP.1.1, MA.912.DP.1.2	12.4 Displaying and Interpreting Univariate Categorical Data	
T	March 14	MA.912.DP.1.3	12.5 Correlation vs. Causation	
W	March 15	MA.912.DP.1.4	12.6 Estimating for a Population	
Z	March 16		Review Unit 12—Quick Review	
Z	March 16		Unit 12 Assessment—Group Test	

## Unit 13: Bring it Together



2022-2023

## Algebra 1

1200310

Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
M	March 27	MA.912.FL.3.2, MA.912.FL.3.4, MA.912.F.1.8	13.1 Simple Interest	<i>USE FOR ALL OF UNIT 13</i> 8.F.1.2: Unit 10 8.F.1.3: Unit 10 8.AR.3.2: Unit 6 & 7
T	March 28	MA.912.FL.3.2, MA.912.FL.3.4, MA.912.F.1.8	13.2 Compound Interest	
W	March 29	MA.912.F.1.6, MA.912.F.1.8	13.3 Comparing Key Features of Functions	
Z	March 30	MA.912.F.1.1	13.4 Parent Functions	
F	March 31	MA.912.F.2.1	13.5 Exploring Transformations – Horizontal Shifts	
M	April 3	MA.912.F.2.1	13.6 Exploring Transformations – Vertical Shifts	
T	April 4	MA.912.F.2.1	13.7 Exploring Transformations by a Factor	
W	April 5	MA.912.AR.1.1	13.8 Identifying and Interpreting Parts of an Expression or Equation – Part 1	
Z	April 6	MA.912.AR.1.1	13.9 Identifying and Interpreting Parts of an Expression or Equation – Part 2	
F	April 7	MA.912.F.1.8	13.10 Determining Which Function Type Best Models a Real-World Context	
M	April 10	MA.912.F.1.3	13.11 Calculating and Interpreting Average Rate of Change	
T	April 11		Review Unit 13	
W	April 12		Unit 13 Assessment	
<b>Unit 14: Categorical Data</b>				
Day	Date	Focus Benchmark(s)	Lesson/Topic	8 <sup>th</sup> Grade Benchmark for Remediation: Unit/Lesson
Z	April 13	MA.912.DP.3.1, MA.912.DP.1.1, MA.912.DP.1.2	14.1 Constructing Two-Way Tables	<i>USE FOR ALL OF UNIT 14</i> 8.DP.1.1: Unit 11 8.DP.1.2: Unit 11
F	April 14	MA.912.DP.3.1, MA.912.DP.1.1, MA.912.DP.1.2	14.2 Interpreting Joint and Marginal Frequencies	

**2022-2023****Algebra 1****1200310**

M	April 17	MA.912.DP.3.1, MA.912.DP.1.1, MA.912.DP.1.2	14.3 Two-Way Tables and Segmented Bar Graphs	
T	April 18	MA.912.DP.3.1	14.4 Determining Possible Associations in Data	
W	April 19		Review Unit 14	
Z	April 20		Unit 14 Assessment	