



SUMMER 305 2024: EXPLORE, EXPERIENCE AND EXCEL

B.E.S.T. Algebra 1 EOC Self-Prep Camp.

June 11, 2024 – July 25, 2024



Monday	Tuesday	Wednesday	Thursday
	Solving Equations and Inequalities – Lesson(s) Resources	Linear Functions – Lesson(s) Resources	
Recess	11 <ul style="list-style-type: none"> Writing and Solving One-variable Linear Equations. Solving Absolute Value Equations. Writing and Solving One-variable Inequalities 	12 <ul style="list-style-type: none"> Graphing and Identifying Key Features of Linear Functions. Writing a linear two-variable equation to represent relationships. 	13 <ul style="list-style-type: none"> Writing equations of parallel and perpendicular lines. Simple Interest.
	Functions – Lesson(s) Resources		Systems of Equations and Inequalities – Lesson(s) Resources
17 Cumulative Review # 1 Cumulative Review # 1 Answer Key	18 <ul style="list-style-type: none"> Evaluating and Interpreting functions. Parent functions. Transformations of functions. Average rate of change 	Legal Holiday	20 <ul style="list-style-type: none"> Solving systems of two-variable linear equations algebraically or graphically. Writing systems of two-variable linear equations.
Systems of Equations and Inequalities – Lesson(s) Resources		Exponents and Radicals – Lesson(s) Resources	
24 <ul style="list-style-type: none"> Graphing the solution set of two-variable linear inequalities. Writing two-variable linear inequalities to represent relationships. 	25 <ul style="list-style-type: none"> Graphing the solution set of a system of two-variable linear inequalities. <hr/> Cumulative Review # 2 Cumulative Review # 2 Answer Key	26 <ul style="list-style-type: none"> Evaluate numerical expressions and generate equivalent numerical expressions involving rational exponents. 	27 <ul style="list-style-type: none"> Generate equivalent algebraic expressions using the properties of exponents. Operations with radicals.
Exponential Functions – Lesson(s) Resources		Polynomials – Lesson(s) Resources	
1 <ul style="list-style-type: none"> Growth and decay functions. Key features of exponential functions. Graphing Exponential functions. Writing exponential functions to represent a relationship. 	2 <ul style="list-style-type: none"> Compound Interest. <hr/> Cumulative Review # 3 Cumulative Review # 3 Answer Key	3 <ul style="list-style-type: none"> Adding, subtracting, and multiplying polynomials. Dividing polynomials. 	Legal Holiday



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Polynomials – Lesson(s) Resources		Quadratic Functions – Lesson(s) Resources	
8 <ul style="list-style-type: none"> Factoring polynomials. Solving quadratics by factoring. 	9 <ul style="list-style-type: none"> Determining Key Features of quadratic functions. Graphing quadratic functions. 	10 <ul style="list-style-type: none"> Writing quadratic functions to represent relationships. Writing and solving one-variable quadratic equations over the real number system. 	11 <p>Cumulative Review # 4 Cumulative Review # 4 Answer Key</p>
Categorical and Numerical Data – Lesson(s) Resources		Algebra 1 EOC Test Prep. - Resources	
15 <ul style="list-style-type: none"> Representing numerical and categorical data. Interpreting data distributions. Estimate a population total, mean or percentage using data from a sample survey. Two-ways frequency tables. 	16 <ul style="list-style-type: none"> Fitting a linear function to bivariate numerical data. Scatter plots and residuals. <p>Cumulative Review # 5 Cumulative Review # 5 Answer Key</p>	17 <p style="text-align: center;"><i>BEST Algebra 1 EOC Review</i></p>	18
22 <p style="text-align: center;"><i>BEST Algebra 1 EOC Test</i></p>	23	24 <p style="text-align: center;"><i>BEST Algebra 1 EOC Test – Make-Up</i></p>	25

Course Benchmarks

Lesson Resources

Solving Equations and Inequalities	Linear Functions
<p>Math Nation Videos & Check Your Understanding</p> <ul style="list-style-type: none">• Writing and Solving One-variable Linear Equations Video - 5.4.2 Guided Instruction: Solving Real-World Problems by Writing and Solving Equations Video - 5.4.3 Guided Practice: Solving Real-World Problems by Writing and Solving Equations Video - 5.4.4 Try It: Solving Real-World Problems by Writing and Solving Equations Check Your Understanding• Solving Absolute Value Equations Video - 10.4.3 Guided Instruction: Solving Multi-Step Absolute Value Equations Check Your Understanding• Writing and Solving One-variable Inequalities Video - 6.1.3 Guided Instruction: Multi-Step Linear Inequalities Check Your Understanding Video - 6.2.3 Guided Instruction: Compound Inequalities Video - 6.2.5 Guided Practice: Compound Inequalities in the Real World Video - 6.2.6 Your Turn! Check Your Understanding	<p>Math Nation Videos & Check Your Understanding</p> <ul style="list-style-type: none">• Graphing and Identifying Key Features of Linear Functions Video - 4.3.3 Guided Instruction: Different Forms of a Line Video - 4.3.4 Your Turn! Check Your Understanding Video - 4.5.2 Guided Instruction: Graphing a Line and Interpreting Key Features Video - 4.5.3 Try It: Graphing and Interpreting Key Features Video - 4.5.4 Your Turn! Check Your Understanding• Writing a linear two-variable equation to represent relationships. Video - 3.2.4 Guided Instruction: Writing the Equation of a Line from a Graph Video - 3.2.5 Try It: Writing the Equation of a Line from a Graph Check Your Understanding Video - 3.3.3 Guided Instruction: Writing Equations of Lines from Tables in a Real-World Context Video - 3.3.4 Guided Practice: Writing Equations of Lines from Graphs and Tables Check Your Understanding Video - 3.4.3 Guided Instruction: Writing Equations of Lines from Descriptions Video - 3.4.4 Guided Practice: Writing Equations of Lines from Descriptions Check Your Understanding• Writing equations of parallel and perpendicular lines Video - 4.10.3 Guided Instruction: Parallel Lines Video - 4.10.4 Your Turn! Check Your Understanding Video - 4.11.2 Guided Instruction: Writing Equations of Perpendicular Lines Through a Point Video - 4.11.3 Guided Practice: Writing Equations of Perpendicular Lines Through a Point Video - 4.11.4 Your Turn! Check Your Understanding• Simple Interest Video - 13.1.2 Guided Instruction: Simple Interest Video - 13.1.3 Guided Practice: Calculating Simple Interest Video - 13.1.4 Your Turn! Check Your Understanding
<p>NOTE: To ensure that the resource links open correctly, you must be logged in to the student portal using Google Chrome.</p>	

Lesson Resources

Functions	Systems of Equations and Inequalities
<p>Math Nation Videos & Check Your Understanding</p> <ul style="list-style-type: none"> Evaluating and Interpreting Functions <ul style="list-style-type: none"> Video - 1.2.4 Guided Instruction: Evaluating Functions Video - 1.2.5 Try It: Function Notation Video - 1.2.6 Your Turn! Check Your Understanding Video - 1.3.2 Guided Instruction: Interpreting Functions Video - 1.3.3 Guided Practice: Interpreting Functions Video - 1.3.4 Try It: Evaluating and Interpreting Functions Video - 1.3.5 Your Turn! Check Your Understanding Parent Functions <ul style="list-style-type: none"> Video - 1.1.3 Guided Practice: Classifying Functions Video - 1.1.4 Your Turn! Check Your Understanding Transformations of Functions <ul style="list-style-type: none"> Video - 13.5.3 Guided Instruction: Writing Transformations using Function Notation Check Your Understanding Video - 13.6.4 Guided Practice: Describing Transformations Check Your Understanding Video - 13.7.4 Guided Practice: Describing Transformations Check Your Understanding Average Rate of Change <ul style="list-style-type: none"> Video - 13.11.2 Guided Instruction: Average Rate of Change Video - 13.11.3 Try It: Average Rate of Change Check Your Understanding 	<p>Math Nation Videos & Check Your Understanding</p> <ul style="list-style-type: none"> Solving systems of two-variable linear equations algebraically or graphically <ul style="list-style-type: none"> Video - 5.7.3 Guided Instruction: Solving Systems of Equations by Graphing and Interpreting Solutions Video - 5.7.4 Guided Practice: Solving Systems by Graphing and Interpreting Solutions Video - 5.7.5 Try It: Solving Systems by Graphing and Interpreting Solutions Check Your Understanding Video - 5.8.2 Guided Instruction: Writing and Solving Systems of Equations Using Substitution Video - 5.8.3 Guided Practice: Writing and Solving Systems of Equations Using Substitution Video - 5.8.5 Your Turn! Check Your Understanding Video - 5.9.2 Guided Instruction: Solving Systems of Linear Equations using Elimination Video - 5.9.3 Guided Practice: Solving Systems of Linear Equations using Elimination Video - 5.9.4 Your Turn! Check Your Understanding Writing systems of two-variable linear equations <ul style="list-style-type: none"> Video - 5.11.2 Guided Practice: Writing Systems of Equations Video - 5.11.4 Your Turn! Check Your Understanding Graphing the solution set of two-variable linear inequalities. <ul style="list-style-type: none"> Video - 6.5.3 Guided Instruction: Two-Variable Linear Inequalities in Standard and Point-Slope Forms Check Your Understanding Video - 6.6.3 Guided Instruction: Connecting Real World Contexts and Two-Variable Linear Inequalities Video - 6.6.4 Guided Practice: Two-Variable Linear Inequalities in Real-World Contexts Video - 6.6.5 Try It: Representing Real-World Contexts with Two-Variable Inequalities Check Your Understanding Writing two-variable linear inequalities to represent relationships. <ul style="list-style-type: none"> Video - 6.7.3 Guided Instruction: Writing Two-Variable Linear Inequalities in Different Forms Video - 6.7.4 Guided Practice: Writing Inequalities Given the Graph of the Solution Set Check Your Understanding Video - 6.8.3 Guided Instruction: Writing Linear Inequalities in Two Variables to Represent Real-World Contexts Video - 6.8.4 Guided Practice: Writing Linear Inequalities in Two Variables to Represent Real-World Contexts Video - 6.8.5 Try It: Qualifying for a Loan Check Your Understanding Graphing the solution set of a system of two-variable linear inequalities. <ul style="list-style-type: none"> Video - 6.10.3 Guided Practice: Graphing Systems of Linear Inequalities Video - 6.10.5 Your Turn! Check Your Understanding
<p>NOTE: To ensure that the resource links open correctly, you must be logged in to the student portal using Google Chrome.</p>	

Lesson Resources

Exponents and Radicals	Exponential Functions
<p>Math Nation Videos & Check Your Understanding</p> <ul style="list-style-type: none"> • Equivalent numerical expressions using the properties of exponents. Video - 1.4.3 Guided Instruction: Building on Square Roots and Cube Roots Video - 1.4.4 Your Turn! Check Your Understanding Video - 1.6.2 Guided Practice: Writing Equivalent Expressions Video - 1.6.5 Try It: Writing Equivalent Expressions Video - 1.6.6 Your Turn! Check Your Understanding • Equivalent algebraic expressions using the properties of exponents. Video - 2.1.2 Guided Instruction: Equivalent Algebraic Expressions Video - 2.1.3 Guided Practice: Products of Monomials Video - 2.1.5 Your Turn! Check Your Understanding Video - 2.2.2 Guided Instruction: Quotient of Powers Video - 2.2.3 Guided Practice: Generating Equivalent Algebraic Expressions Using Quotient of Powers Video - 2.2.4 Guided Instruction: Power of a Quotient Video - 2.2.6 Your Turn! Check Your Understanding Video - 2.3.2 Guided Practice: Using Different Methods to Generate Equivalent Expressions Video - 2.3.3 Try It: Generating Equivalent Algebraic Expressions Video - 2.3.5 Your Turn! Check Your Understanding • Operations with radicals Video - 1.8.3 Guided Instruction: Equivalent Radical Expressions Video - 1.8.4 Try It: Equivalent Radical Expressions Video - 1.8.5 Your Turn! Check Your Understanding Video - 1.9.3 Guided Instruction: Adding and Subtracting Radical Expressions Video - 1.9.4 Guided Practice: Adding and Subtracting Radical Expressions Video - 1.9.5 Your Turn! Check Your Understanding Video - 1.10.2 Guided Instruction: Multiplying and Dividing Radical Expressions Video - 1.10.4 Your Turn! Check Your Understanding 	<p>Math Nation Videos & Check Your Understanding</p> <ul style="list-style-type: none"> • Growth and decay functions. Video - 11.1.5 Your Turn! Check Your Understanding • Key features of exponential functions. Video - 11.2.3 Guided Instruction: Determining Key Features of Exponential Graphs Video - 11.2.4 Your Turn! Check Your Understanding • Graphing Exponential functions. Video - 11.3.2 Guided Instruction: Graphing an Exponential Equation Video - 11.3.5 Your Turn! Check Your Understanding Video - 11.4.2 Guided Instruction: Graphing Exponential Functions from a Written Description and Equation Check Your Understanding • Writing exponential functions to represent a relationship. Video - 11.5.2 Guided Instruction: Writing an Exponential Function from Graphs and Tables Video - 11.5.3 Guided Practice: Writing Exponential Functions Check Your Understanding Video - 11.6.2 Guided Instruction: Writing Exponential Functions Video - 11.6.3 Try It: Writing Exponential Functions Video - 11.6.5 Your Turn! Check Your Understanding • Compound Interest and its relationship to exponential functions. Video - 13.2.3 Guided Instruction: Compound Interest Check Your Understanding
<p>NOTE: To ensure that the resource links open correctly, you must be logged in to the student portal using Google Chrome.</p>	

Lesson Resources

Polynomials	Quadratic Functions
<p>Math Nation Videos & Check Your Understanding</p> <ul style="list-style-type: none"> • Adding, subtracting, and multiplying polynomials. Video - 2.5.2 Guided Instruction: Adding Polynomials Video - 2.5.4 Guided Practice: Adding and Subtracting Polynomials Video - 2.5.5 Your Turn! Check Your Understanding Video - 2.7.2 Guided Instruction: Multiplying Binomials Video - 2.7.3 Guided Practice: Multiplying Binomials Video - 2.7.5 Your Turn! Check Your Understanding • Dividing polynomials. Video - 2.9.2 Guided Instruction: Dividing Polynomials by Monomials Video - 2.9.3 Guided Practice: Dividing Polynomials by Monomials Video - 2.9.4 Your Turn! Check Your Understanding • Factoring polynomials. Video - 7.1.3 Guided Instruction: Common Monomial Factors Video - 7.1.4 Guided Practice: Factoring with the Distributive Property Video - 7.1.5 Your Turn! Check Your Understanding Video - 7.3.3 Guided Instruction: Factoring Trinomials where $a = 1$ Video - 7.3.4 Your Turn! Check Your Understanding Video - 7.4.2 Guided Instruction: Factoring Trinomials where $a > 1$ Video - 7.4.3 Guided Practice: Factoring Trinomials where $a > 1$ Video - 7.4.4 Try It: Factoring Trinomials where $a > 1$ Video - 7.4.5 Your Turn! Check Your Understanding Video - 7.8.3 Guided Practice: Factoring a Difference of Two Squares Video - 7.8.4 Try It: Factoring Polynomials Video - 7.8.5 Your Turn! Check Your Understanding • Solving Quadratics by Factoring. Video - 9.7.3 Guided Instruction: Solving Quadratic Equations by Factoring Video - 9.7.4 Try It: Factoring Check Your Understanding 	<p>Math Nation Videos & Check Your Understanding</p> <ul style="list-style-type: none"> • Determining Key Features of quadratic functions. Video - 8.1.2 Guided Instruction: Key Features of Quadratics Video - 8.1.4 Guided Practice: Key Features of Quadratics Using Equations Check Your Understanding Video - 8.2.2 Guided Instruction: More Key Features of Quadratics Video - 8.2.4 Your Turn! • Graphing quadratic functions. Video - 8.4.2 Guided Instruction: Graphing Quadratic Equations from Key Features and a Table of Values Video - 8.4.3 Guided Practice: Graphing Quadratic Equations from Key Features and a Table of Values Video - 8.4.4 Your Turn! Check Your Understanding • Writing quadratic functions to represent relationships. Video - 9.1.3 Guided Instruction: Writing Quadratic Equations from Intercepts and a Point Video - 9.1.4 Guided Practice: Writing Quadratic Equations Video - 9.1.5 Your Turn! Check Your Understanding Video - 9.2.2 Guided Instruction: Writing a Quadratic Function in Vertex Form from a Graph Video - 9.2.4 Your Turn! Check Your Understanding Video - 9.3.3 Guided Practice: Writing a Quadratic Function Using a Vertex and Point from a Table Video - 9.3.4 Your Turn! Check Your Understanding Video - 9.4.3 Try It: Writing Quadratic Functions Video - 9.4.4 Your Turn! Check Your Understanding • Writing and solving one-variable quadratic equations over the real number system. Video - 9.5.3 Guided Instruction: Solving Quadratics by Taking the Square Root Video - 9.5.4 Guided Practice: Solving Quadratics by Taking the Square Root Video - 9.5.5 Try It: Solving Quadratics by Taking the Square Root Check Your Understanding Video - 9.9.2 Guided Instruction: Quadratic Formula Video - 9.9.3 Try It: Solving with the Quadratic Formula Video - 9.9.4 Your Turn! Check Your Understanding Video - 9.11.2 Guided Instruction: Writing and Solving Quadratic Equations Video - 9.11.3 Guided Practice: Writing and Solving Quadratic Equations Video - 9.11.4 Your Turn! Check Your Understanding
<p>NOTE: To ensure that the resource links open correctly, you must be logged in to the student portal using Google Chrome.</p>	

Lesson Resources

Categorical and Numerical Data	Algebra 1 EOC Test Prep.
<p>Math Nation Videos & Check Your Understanding</p> <ul style="list-style-type: none"> Representing numerical and categorical data. Check Your Understanding Video - 12.2.3 Try It: Creating Displays for Numerical Data Check Your Understanding Video - 12.4.2 Guided Instruction: Displays for Categorical Data Video - 12.4.3 Your Turn! Check Your Understanding Interpreting data distributions. Video - 12.3.3 Guided Practice: Comparing Distributions Video - 12.3.5 Guided Instruction: Summarizing Data Video - 12.3.6 Try It: Summarizing Data Check Your Understanding Estimate a population total, mean or percentage using data from a sample survey. Video - 12.6.2 Guided Instruction: Margin of Error Video - 12.6.3 Guided Practice: Estimating for a Population Video - 12.6.4 Your Turn! Check Your Understanding Two-way Frequency Tables Video - 14.1.2 Guided Instruction: Two-Way Frequency Tables Video - 14.1.4 Guided Practice: Constructing a Two-Way Table Video - 14.1.5 Try It: Constructing a Two-Way Table Check Your Understanding Video - 14.2.4 Your Turn! Check Your Understanding Video - 14.3.2 Exploration: Segmented Bar Graphs Video - 14.3.4 Try It: Interpreting Segmented Bar Graphs Check Your Understanding Video - 14.4.2 Guided Instruction: Finding Possible Associations in the Data Video - 14.4.4 Try It: Possible Associations Check Your Understanding Fitting a linear function to bivariate numerical data. Video - 3.6.3 Guided Instruction: Relating the Correlation Coefficient, r, to the Slope of the Fit of the Regression Line Video - 3.6.4 Guided Practice: Formally Fitting a Line of Best Fit to Data and Using it to Solve Problems Check Your Understanding Scatter plots and residuals. Video - 3.5.4 Guided Instruction: Interpreting the Slope and the y-intercept of the Line of Fit Check Your Understanding Video - 3.8.3 Guided Instruction: Analyzing Residuals Check Your Understanding 	<p>EOC Review Printed Materials</p> <p>Math Nation Test Yourself!</p> <p>Unit 1: Introduction to Functions - Test Yourself! Unit 2: Algebraic Expressions - Test Yourself! Unit 3: Linear Functions - Test Yourself! Unit 4: Key Features of Linear Functions - Test Yourself! Unit 5: Solving Equations - Test Yourself! Unit 6: Linear Inequalities - Test Yourself! Unit 7: Rewriting Polynomial Expressions - Test Yourself! Unit 8: Quadratic Functions - Test Yourself! Unit 9: Writing and Solving Quadratic Equations - Test Yourself! Unit 10: Absolute Value Functions - Test Yourself! Unit 11: Exponential Functions - Test Yourself! Unit 12: Data Displays - Test Yourself! Unit 13: Bring It Together - Test Yourself! Unit 14: Categorical Data - Test Yourself!</p> <p>Additional Resources</p> <p>FSA Portal B.E.S.T. EOC Algebra 1 Reference Sheet B.E.S.T. EOC Calculator B.E.S.T. Algebra 1 EOC CBT Sample Test Items B.E.S.T. Algebra 1 EOC CBT Sample Test Items Answer Key B.E.S.T. Algebra 1 EOC PBT Sample Test Materials B.E.S.T. Algebra 1 EOC PBT Sample Test Materials Answer Key</p>
<p>NOTE: To ensure that the resource links open correctly, you must be logged in to the student portal using Google Chrome.</p>	

Course Benchmarks					
Solving Equations and Inequalities		Linear Functions		Functions	
MA.912.AR.1.2 MA.912.AR.2.1 MA.912.AR.4.1 MA.912.AR.2.6		MA.912.AR.2.2 MA.912.AR.2.4 MA.912.AR.2.5 MA.912.AR.4.3		MA.912.F.1.1 MA.912.F.1.2 MA.912.F.1.5 MA.912.F.2.1	
Systems of Equations and Inequalities		Exponents and Radicals		Exponential Functions	
MA.912.AR.2.7 MA.912.AR.2.8 MA.912.AR.9.1	MA.912.AR.9.4 MA.912.AR.9.6	MA.912.NSO.1.1 MA.912.NSO.1.2 MA.912.NSO.1.4		MA.912.AR.1.1 MA.912.AR.5.3 MA.912.AR.5.4 MA.912.AR.5.6	
Polynomials		Quadratic Functions		Categorical and Numerical Data	
MA.912.AR.1.1 MA.912.AR.1.3 MA.912.AR.1.4	MA.912.AR.1.7 MA.912.AR.3.1	MA.912.AR.3.1 MA.912.AR.3.4 MA.912.AR.3.5	MA.912.AR.3.6 MA.912.AR.3.7 MA.912.AR.3.8	MA.912.DP.1.1 MA.912.DP.1.2 MA.912.DP.1.3 MA.912.DP.1.4	MA.912.DP.2.4 MA.912.DP.2.6 MA.912.DP.3.1