



School District of Pickens County

Building success beyond the classroom

SC Standards: Math

Math Tech I

Unit: Algebra I Introduction

- Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.
- Math-EA-1.2 Connect algebra with other branches of mathematics.
- Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.
- Math-EA-1.4 Judge the reasonableness of mathematical solutions.
- Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).
- Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.
- Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).
- Math-EA-2.4 Use dimensional analysis to convert units of measure within a system.
- Math-EA-2.6 Carry out a procedure to evaluate an expression by substituting a value for the variable.
- Math-EA-2.6 Carry out a procedure to evaluate an expression by substituting a value for the variable.
- Math-EA-3.1 Classify a relationship as being either a function or not a function when given data as a table, set of ordered pairs, or graph.
- Math-EA-3.3 Carry out a procedure to evaluate a function for a given element in the domain.
- Math-EA-3.4 Analyze the graph of a continuous function to determine the domain and range of the function.
- Math-EA-4.10 Carry out a procedure to solve systems of two linear equations algebraically.
- Math-EA-5.12 Analyze given information to write a linear inequality in one variable that models a given problem situation.
- Math-EA-5.9 Analyze given information to write a linear function that models a given problem situation.

Unit: Properties of Real Numbers

- Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.
- Math-EA-1.2 Connect algebra with other branches of mathematics.
- Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.
- Math-EA-1.4 Judge the reasonableness of mathematical solutions.
- Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).



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- Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.
- Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).
- Math-EA-2.1 Exemplify elements of the real number system (including integers, rational numbers, and irrational numbers).
- Math-EA-2.5 Carry out a procedure using the properties of real numbers (including commutative, associative, and distributive) to simplify expressions.

Unit: Solving Linear Equations

- Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.
- Math-EA-1.2 Connect algebra with other branches of mathematics.
- Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.
- Math-EA-1.4 Judge the reasonableness of mathematical solutions.
- Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).
- Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.
- Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).
- Math-EA-2.4 Use dimensional analysis to convert units of measure within a system.
- Math-EA-3.7 Carry out a procedure to solve literal equations for a specified variable.
- Math-EA-3.8 Apply proportional reasoning to solve problems.
- Math-EA-4.7 Carry out procedures to solve linear equations for one variable algebraically.
- Math-EA-5.10 Analyze given information to determine the domain and range of a linear function in a problem situation.

Unit: Graphing Linear Equations and Functions

- Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.
- Math-EA-1.2 Connect algebra with other branches of mathematics.
- Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.
- Math-EA-1.4 Judge the reasonableness of mathematical solutions.



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- Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).
- Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.
- Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).
- Math-EA-2.6 Carry out a procedure to evaluate an expression by substituting a value for the variable.
- Math-EA-3.1 Classify a relationship as being either a function or not a function when given data as a table, set of ordered pairs, or graph.
- Math-EA-3.2 Use function notation to represent functional relationships.
- Math-EA-3.3 Carry out a procedure to evaluate a function for a given element in the domain.
- Math-EA-3.4 Analyze the graph of a continuous function to determine the domain and range of the function.
- Math-EA-3.5 Carry out a procedure to graph parent functions (including).
- Math-EA-3.6 Classify a variation as either direct or inverse.
- Math-EA-3.7 Carry out a procedure to solve literal equations for a specified variable.
- Math-EA-4.4 Use a procedure to write an equation of a trend line from a given scatterplot.
- Math-EA-4.5 Analyze a scatterplot to make predictions.
- Math-EA-4.7 Carry out procedures to solve linear equations for one variable algebraically.
- Math-EA-5.1 Carry out a procedure to graph a line when given the equation of the line.
- Math-EA-5.10 Analyze given information to determine the domain and range of a linear function in a problem situation.
- Math-EA-5.2 Analyze the effects of changes in the slope, m , and the y -intercept, b , on the graph of $y = mx + b$.
- Math-EA-5.3 Carry out a procedure to graph the line with a given slope and a y -intercept.
- Math-EA-5.4 Carry out a procedure to graph the line with a given slope passing through a given point.
- Math-EA-5.5 Carry out a procedure to determine the x -intercept and y -intercept of lines from data given tabularly, graphically, symbolically, and verbally.
- Math-EA-5.6 Carry out a procedure to determine the slope of a line from data given tabularly, graphically, symbolically, and verbally.
- Math-EA-5.7 Apply the concept of slope as a rate of change to solve problems.
- Math-EA-5.8 Analyze the equations of two lines to determine whether the lines are perpendicular or parallel.



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Math-EA-5.9 Analyze given information to write a linear function that models a given problem situation.

Unit: Writing Linear Equations

Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.

Math-EA-1.2 Connect algebra with other branches of mathematics.

Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.

Math-EA-1.4 Judge the reasonableness of mathematical solutions.

Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).

Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.

Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).

Math-EA-4.1 Carry out a procedure to write an equation of a line with a given slope and a y-intercept.

Math-EA-4.2 Carry out a procedure to write an equation of a line with a given slope passing through a given point.

Math-EA-4.3 Carry out a procedure to write an equation of a line passing through two given points.

Math-EA-4.4 Use a procedure to write an equation of a trend line from a given scatterplot.

Math-EA-4.5 Analyze a scatterplot to make predictions.

Math-EA-4.6 Represent linear equations in multiple forms (including point-slope, slope-intercept, and standard).

Math-EA-5.9 Analyze given information to write a linear function that models a given problem situation.

Unit: Linear Inequalities

Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.

Math-EA-1.2 Connect algebra with other branches of mathematics.

Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.

Math-EA-1.4 Judge the reasonableness of mathematical solutions.

Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).

Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.



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- Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).
- Math-EA-3.4 Analyze the graph of a continuous function to determine the domain and range of the function.
- Math-EA-3.5 Carry out a procedure to graph parent functions (including).
- Math-EA-4.8 Carry out procedures to solve linear inequalities for one variable algebraically and then to graph the solution.
- Math-EA-5.12 Analyze given information to write a linear inequality in one variable that models a given problem situation.