

## CCSS Integrated Pathway Support Supplement for Mathematics I Content Map

Unit 1: Relationships Between Quantities		
Lesson	Title	Standard(s)
<b>Lesson 1</b>	<b>Interpreting Structure in Expressions: Prerequisite Skills</b>	
	<i>E-Skill 1: Applying the Order of Operations</i>	5.OA.1
	Skill 1: Translating Verbal Expressions to Algebraic Expressions	6.EE.2a
	Skill 2: Evaluating Expressions for a Given Value	6.EE.2c
<b>Lesson 2</b>	<b>Creating Equations and Inequalities in One Variable: Prerequisite Skills</b>	
	<i>E-Skill 1: Applying the Order of Operations</i>	5.OA.1
	Skill 1: Creating Ratios	6.RP.2
	Skill 2: Translating Verbal Sentences into Expressions*	6.EE.2a
	Skill 3: Solving Simple Linear Equations	8.EE.7b
	Skill 4: Comparing Rational Numbers	6.NS.7a
<b>Lesson 3</b>	<b>Creating and Graphing Equations in Two Variables: Prerequisite Skills</b>	
	<i>E-Skill 1: Applying the Order of Operations</i>	5.OA.1
	<i>E-Skill 2: Understanding the Coordinate Plane</i>	5.G.1
	Skill 1: Understanding Slope as a Rate of Change	8.EE.5
	<b>Lesson 4</b>	
<b>Lesson 4</b>	<b>Representing Constraints: Prerequisite Skills</b>	
	Skill 1: Reading and Writing Inequalities	6.NS.7b
<b>Lesson 5</b>	<b>Rearranging Formulas: Prerequisite Skills</b>	
	<i>E-Skill 1: Applying the Order of Operations</i>	5.OA.1
	Skill 1: Solving Multi-Step Equations*	8.EE.7b
Unit 2: Linear and Exponential Relationships		
Lesson	Title	Standard(s)
<b>Lesson 1</b>	<b>Graphs As Solution Sets and Function Notation: Prerequisite Skills</b>	
	<i>E-Skill 1: Applying the Order of Operations</i>	5.OA.1
	<i>E-Skill 2: Understanding the Coordinate Plane</i>	5.G.1
	Skill 1: Solving Equations in Standard Form for $y$	A-CED.4*
	Skill 2: Creating Equations from Context	A-CED.2*
	Skill 3: Evaluating Negative Exponents	8.EE.1
<b>Lesson 2</b>	<b>Solving Linear Inequalities in Two Variables and Systems of Inequalities: Prerequisite Skills</b>	
	Skill 1: Graphing Linear Equations in Two Variables*	A-CED.2*
	Skill 2: Verifying Whether Inequalities Are True or False	6.EE.5
	Skill 3: Creating Equations from Context*	A-CED.2*
	Skill 4: Substituting Values for Variables*	6.EE.2c
	Skill 5: Understanding Domain and Range**	F-IF.1

<b>Lesson 3</b>	<b>Sequences As Functions: Prerequisite Skills</b>	
	<i>E-Skill 3: Recognizing Patterns</i>	3.OA.9
	Skill 1: Understanding the Properties of Functions	8.F.4
	Skill 2: Understanding Function Notation**	F-IF.2
<b>Lesson 4</b>	<b>Interpreting Graphs of Functions: Prerequisite Skills</b>	
	<i>E-Skill 1: Applying the Order of Operations</i>	5.OA.1
	<i>E-Skill 2: Understanding the Coordinate Plane</i>	5.G.1
	Skill 1: Graphing Linear Functions from Tables or Equations*	A-CED.2*
	Skill 2: Graphing Exponential Functions from Tables or Equations*	A-CED.2*
	Skill 3: Understanding Function Notation, Domain, and Independent and Dependent Variables**	F-IF.1
	Skill 4: Understanding Slope*	8.EE.5
Skill 5: Interpreting Interval Notation	No standard	
<b>Lesson 5</b>	<b>Analyzing Linear and Exponential Functions: Prerequisite Skills</b>	
	<i>E-Skill 2: Understanding the Coordinate Plane</i>	5.G.1
	Skill 1: Graphing a Function from a Table of Values*	A-CED.2*
	Skill 2: Understanding the Rules of Exponents, Including Negative Exponents*	8.EE.1
Skill 3: Recognizing the General Shape of an Exponential Function (Decay or Growth)*	A-CED.2*	
<b>Lesson 6</b>	<b>Comparing Functions: Prerequisite Skills</b>	
	Skill 1: Determining the Slope of Linear Functions*	8.EE.5
	Skill 2: Determining the Intercepts of Linear Functions	8.EE.6
	Skill 3: Determining the Rate of Change of Exponential Functions**	F-IF.6*
	Skill 4: Determining the Intercepts of Exponential Functions**	F-IF.4*
Skill 5: Graphing Functions*	A-CED.2*	
<b>Lesson 7</b>	<b>Building Functions: Prerequisite Skills</b>	
	<i>E-Skill 2: Understanding the Coordinate Plane</i>	5.G.1
	Skill 1: Evaluating Exponential Expressions*	8.EE.1
Skill 2: Understanding Independent and Dependent Quantities	6.EE.9	
<b>Lesson 8</b>	<b>Operating on Functions and Transformations: Prerequisite Skills</b>	
	<i>E-Skill 1: Applying the Order of Operations</i>	5.OA.1
	Skill 1: Graphing Linear and Exponential Functions*	A-CED.2*
Skill 2: Identifying $y$ -intercepts of Graphs of Functions*	8.EE.6	
<b>Lesson 9</b>	<b>Arithmetic and Geometric Sequences: Prerequisite Skills</b>	
	<i>E-Skill 1: Applying the Order of Operations</i>	5.OA.1
	<i>E-Skill 3: Recognizing Patterns</i>	3.OA.9
	<i>E-Skill 4: Multiplying Fractions</i>	5.NF.4a
	Skill 1: Adding and Subtracting Signed Numbers	7.NS.1b 7.NS.1c
	Skill 2: Identifying Linear Relationships*	8.F.4
Skill 3: Multiplying Signed Numbers	7.NS.2a	
Skill 4: Using Exponents*	8.EE.1	
<b>Lesson 10</b>	<b>Interpreting Parameters: Prerequisite Skills</b>	
	Skill 1: Graphing Equations*	A-CED.2*
	Skill 2: Writing Linear Equations from Context*	A-CED.2*
Skill 3: Writing Exponential Equations from Context*	A-CED.2*	

Unit 3: Reasoning with Equations		
Lesson	Title	Standard(s)
Lesson 1	<b>Solving Equations and Inequalities: Prerequisite Skills</b>	
	<i>E-Skill 1: Applying the Order of Operations</i>	5.OA.1
	Skill 1: Using the Distributive Property	6.EE.3
	Skill 2: Solving Equations*	8.EE.7b
	Skill 3: Solving Simple Inequalities	7.EE.4b
	Skill 4: Working with Exponents (Raising a Base to a Power)*	6.EE.1
	Skill 5: Using Properties of Exponents*	8.EE.1
Lesson 2	<b>Solving Systems of Equations: Prerequisite Skills</b>	
	Skill 1: Graphing Equations of Lines*	A-CED.2*
	Skill 2: Using Properties of Equality to Solve Equations*	8.EE.7b
	Skill 3: Analyzing Situations Involving Linear Equations	8.F.5
	Skill 4: Creating Linear Equations to Solve Problems*	A-CED.2*
Unit 4: Descriptive Statistics		
Lesson	Title	Standard(s)
Lesson 1	<b>Working with a Single Measurement Variable: Prerequisite Skills</b>	
	Skill 1: Finding the First and Third Quartiles of a Data Set	6.SP.5c
	Skill 2: Plotting Values on a Real Number Line	6.NS.6c
	Skill 3: Calculating the Mean and Median of Data	6.SP.5c
	Skill 4: Calculating the Mean Absolute Deviation and Interquartile Range of Data	6.SP.5c
	Skill 5: Creating Graphical Representations of Data	6.SP.4
	Skill 6: Understanding How the Shape of Data Relates to the Center and Spread	6.SP.5d
Lesson 2	<b>Working with Two Categorical and Quantitative Variables: Prerequisite Skills</b>	
	<i>E-Skill 2: Understanding the Coordinate Plane</i>	5.G.1
	Skill 1: Plotting the Graph of a Linear Function from an Equation*	A-CED.2*
	Skill 2: Plotting the Graph of an Exponential Function from an Equation*	A-CED.2*
	Skill 3: Evaluating a Function at a Given Input Value**	F-IF.2
	Skill 4: Solving a Function for $x$ Given a $y$ -value**	A-CED.4*
	Skill 5: Interpreting a Function in Context Using a Graph or an Equation*	8.F.5
	Skill 6: Calculating the Vertical Distance Between Two Points on the Coordinate Plane	6.NS.8
	Skill 7: Finding the Equation of a Line Using Two Points on the Line*	8.EE.6
	Skill 8: Relating the Slope and $y$ -intercept of a Line to an Equation in Point-Slope Form*	8.EE.6
Lesson 3	<b>Interpreting Linear Models: Prerequisite Skills</b>	
	Skill 1: Finding a Linear Fit Given a Scatter Plot**	S-ID.6c*
	Skill 2: Connecting Graphs and Equations of Linear Functions	8.F.3
	Skill 3: Determining the Slope and $y$ -intercept of a Linear Function Given a Graph or an Equation*	8.F.4
	Skill 4: Creating a Scatter Plot Given Data in a Table	8.SP.1
	Skill 5: Identifying Linear Correlations Graphically	8.SP.3
	Skill 6: Examining Linear Correlations Using the Correlation Coefficient, $r$ **	S-ID.8*

Unit 5: Congruence, Proof, and Constructions		
Lesson	Title	Standard(s)
Lesson 1	<b>Introducing Transformations: Prerequisite Skills</b>	
	<i>E-Skill 2: Understanding the Coordinate Plane</i>	5.G.1
	Skill 1: Understanding the Undefined Terms in Geometry: <i>Point, Line, and Plane</i> **	G–CO.1
	Skill 2: Understanding that the Interior Angles of a Triangle Total $180^\circ$	7.G.2
Lesson 2	<b>Defining and Applying Rotations, Reflections, and Translations: Prerequisite Skills</b>	
	<i>E-Skill 2: Understanding the Coordinate Plane</i>	5.G.1
	Skill 1: Understanding the Definitions of Basic Transformations	8.G.3
Lesson 3	<b>Constructing Lines, Segments, and Angles: Prerequisite Skills</b>	
	Skill 1: Understanding the Geometry Terms <i>Line, Segment, Ray, and Angle</i> **	G–CO.1
	Skill 2: Copying Angles and Segments**	G–CO.12
	Skill 3: Bisecting Line Segments**	G–CO.12
Lesson 4	<b>Constructing Polygons: Prerequisite Skills</b>	
	Skill 1: Copying and Bisecting Line Segments**	G–CO.12
	Skill 2: Constructing Perpendicular Lines**	G–CO.12
Lesson 5	<b>Exploring Congruence: Prerequisite Skills</b>	
	Skill 1: Constructing Perpendicular Bisectors**	G–CO.12
	Skill 2: Copying a Segment**	G–CO.12
	Skill 3: Copying an Angle**	G–CO.12
	Skill 4: Recognizing Rotations, Reflections, and Translations*	8.G.3
	Skill 5: Setting Up Ratios	6.RP.1
	Skill 6: Using the Pythagorean Theorem	8.G.7
Lesson 6	<b>Congruent Triangles: Prerequisite Skills</b>	
	Skill 1: Recognizing Transformations**	G–CO.2
	Skill 2: Identifying Corresponding Pairs of Sides and Angles	No standard
Unit 6: Connecting Algebra and Geometry Through Coordinates		
Lesson	Title	Standard(s)
Lesson 1	<b>Slope and Distance: Prerequisite Skills</b>	
	Skill 1: Calculating Slope*	8.EE.5
	Skill 2: Writing Linear Equations*	8.F.4
	Skill 3: Using the Pythagorean Theorem*	8.G.7
	Skill 4: Graphing Linear Equations*	8.F.3
Lesson 2	<b>Lines and Line Segments: Prerequisite Skills</b>	
	Skill 1: Using the Distance Formula with Two Points on the Coordinate Plane	8.G.8
	Skill 2: Calculating the Perimeter of Polygons	No standard
	Skill 3: Calculating the Areas of Triangles and Rectangles	6.G.1
	Skill 4: Simplifying Radicals	No standard