

CCSS Integrated Pathway Support Supplement for Mathematics I Content Map

| Unit 1: Relationships Between Quantities | | |
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| Lesson | Title | Standard(s) |
| Lesson 1 | Interpreting Structure in Expressions: Prerequisite Skills | |
| | <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 |
| Lesson 2 | Creating Equations and Inequalities in One Variable: Prerequisite Skills | |
| | <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 |
| Lesson 3 | Creating and Graphing Equations in Two Variables: Prerequisite Skills | |
| | <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 |
| | Lesson 4 | Representing Constraints: Prerequisite Skills |
| Skill 1: Reading and Writing Inequalities | | 6.NS.7b |
| Lesson 5 | Rearranging Formulas: Prerequisite Skills | |
| | Skill 1: Solving Multi-Step Equations* | 8.EE.7b |
| Unit 2: Linear and Exponential Relationships | | |
| Lesson | Title | Standard(s) |
| Lesson 1 | Graphs As Solution Sets and Function Notation: Prerequisite Skills | |
| | <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 |
| Lesson 2 | Solving Linear Inequalities in Two Variables and Systems of Inequalities: Prerequisite Skills | |
| | 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 |

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| Lesson 3 | Sequences As Functions: Prerequisite Skills | |
| | <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 |
| Lesson 4 | Interpreting Graphs of Functions: Prerequisite Skills | |
| | <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 | |
| Lesson 5 | Analyzing Linear and Exponential Functions: Prerequisite Skills | |
| | <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* | |
| Lesson 6 | Comparing Functions: Prerequisite Skills | |
| | 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* | |
| Lesson 7 | Building Functions: Prerequisite Skills | |
| | <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 | |
| Lesson 8 | Operating on Functions and Transformations: Prerequisite Skills | |
| | <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 | |
| Lesson 9 | Arithmetic and Geometric Sequences: Prerequisite Skills | |
| | <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 | |
| Lesson 10 | Interpreting Parameters: Prerequisite Skills | |
| | 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 | | |
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| Lesson | Title | Standard(s) |
| Lesson 1 | Solving Equations and Inequalities: Prerequisite Skills | |
| | <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 | Solving Systems of Equations: Prerequisite Skills | |
| | 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 | Working with a Single Measurement Variable: Prerequisite Skills | |
| | 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 | Working with Two Categorical and Quantitative Variables: Prerequisite Skills | |
| | <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 | Interpreting Linear Models: Prerequisite Skills | |
| | 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 | | |
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| Lesson | Title | Standard(s) |
| Lesson 1 | Introducing Transformations: Prerequisite Skills | |
| | <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° | 7.G.2 |
| Lesson 2 | Defining and Applying Rotations, Reflections, and Translations: Prerequisite Skills | |
| | <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 | Constructing Lines, Segments, and Angles: Prerequisite Skills | |
| | 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 | Constructing Polygons: Prerequisite Skills | |
| | Skill 1: Copying and Bisecting Line Segments** | G–CO.12 |
| | Skill 2: Constructing Perpendicular Lines** | G–CO.12 |
| Lesson 5 | Exploring Congruence: Prerequisite Skills | |
| | 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 | Congruent Triangles: Prerequisite Skills | |
| | 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 | Slope and Distance: Prerequisite Skills | |
| | 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 | Lines and Line Segments: Prerequisite Skills | |
| | 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 |