

Carnegie Learning Curriculum

Course 3

Module 1: Transforming Geometric Objects

Topic 1

Rigid Motion Transformations

August 17- September 11

<p>Lesson 1 Introduction to Congruent Figures</p> <p>1 synchronous day</p> <p>Standards: 8.G.1a, b, 8.G.2</p>	<p>Lesson 2 Intro to Rigid Motions</p> <p>2 synchronous days</p> <p>Standards: 8.G.1, 2</p>	<p>Lesson 3 Translations of Figures on the Coordinate Plane</p> <p>2 synchronous days</p> <p>Standards: 8.G.2, 8.G.3</p>	<p>Lesson 4 Reflections of Figures on the Coordinate Plane</p> <p>2 synchronous days</p> <p>Standards: 8.G.2, 8.G.3</p>	<p>Lesson 5 Rotations of Figures on the Coordinate Plane</p> <p>2 synchronous days</p> <p>Standards: 8.G.2, 8.G.3</p>
<p>Lesson 6 Combining Rigid Motions</p> <p>2 synchronous days</p> <p>Standards: 8.G.2, 8.G.3</p>	<p>Review</p> <p>1 synchronous day</p>	<p>Assessment</p> <p>1 asynchronous day</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 5 workspaces ● Imagine Math ● Assessments ● Other Practice 	

Topic 2

Similarity

September 14- September 18

Lesson 2 Dilating Figures on a Coordinate Plane 2 synchronous days Standard: 8.G.3, 4	Lesson 3 Mapping Similar Figures Using Transformations 1 synchronous day Standard: 8.G.3	Asynchronous Days: <ul style="list-style-type: none"> • Complete Unfinished Work • Mathia- 5 workspaces • Imagine Math • Assessments • Other Practice
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Topic 3

Line and Angle Relationships

September 21-September 30

Lesson 1 Triangle Sum and Exterior Angle Theorems 1 synchronous day Standards: 8.G.3,4	Lesson 2 Angle Relationships Formed by Lines Intersected by a Transversal 2 synchronous days Standards: 8.G.3,4,5	Lesson 3 The Angle-Angle Similarity Theorem 1 synchronous day Standards: 8.G.4, 5	Review	Assessment 1 asynchronous day
Asynchronous Days: <ul style="list-style-type: none"> • Complete Unfinished Work • Mathia- 7 workspaces • Imagine Math • Assessments • Other Practice 				

Carnegie Learning Curriculum

Course 3

Module 2: Developing Functional Foundations

Topic 1

From Proportions to Linear Relationships

October 1- October 16

<p>Lesson 1 Representations of Proportional Relationships</p> <p>1 synchronous day</p> <p>Standard: 8.EE.5</p>	<p>Lesson 2 Using Similar Triangles to Describe the Steepness of a line</p> <p>2 synchronous days</p> <p>Standards: 8.EE.5, 8.EE.6</p>	<p>Lesson 3 Exploring Slopes Using Similar Triangles</p> <p>1 synchronous day</p> <p>Standards: 8.EE.6</p>	<p>Lesson 4 Transformations of Lines</p> <p>2 synchronous days</p> <p>Standards: 8.EE.6, 8.G.1</p>
<p>Review 1 synchronous day</p>	<p>Assessment 1 asynchronous period</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 7 workspaces ● Imagine Math ● Assessments ● Other Practice 	

Topic 2 Linear Relationships

October 19- November 20

<p>Lesson 1 Using Tables, Graphs, and Equations</p> <p>2 synchronous days</p> <p>Standard: 8.F.4</p>	<p>Lesson 2 Linear Relationships in Tables</p> <p>2 synchronous days</p> <p>Standard: 8.F.4</p>	<p>Lesson 3 Linear Relationships in Contexts</p> <p>2 synchronous day</p> <p>Standard: 8.F.4</p>	<p>Lesson 4 Slope-Intercept Form of a Line</p> <p>2 synchronous days</p> <p>Standard: 8.F.4</p>	<p>Lesson 5 Point-Slope Form</p> <p>2 synchronous days</p> <p>Standard: 8.F.4</p>
<p>Lesson 6 Using Linear Equations</p> <p>2 synchronous days</p> <p>Standard: 8.F.4</p>	<p>Review</p> <p>1 synchronous day</p>	<p>Assessment</p> <p>1 asynchronous day</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 14 workspaces ● Imagine Math ● Assessments ● Other Practice 	

Topic 3 Introduction to Functions

November 30- December 18

<p>Lesson 1 Analyzing Sequences as Rules</p> <p>1 synchronous day</p> <p>Standard: 8.F.1</p>	<p>Lesson 2 Analyzing the Characteristics of Graphs of Relationships</p> <p>2 synchronous days</p> <p>Standard: 8.F.5</p>	<p>Lesson 3 Defining Functional Relationships</p> <p>2 synchronous days</p> <p>Standard: 8.F.1</p>	<p>Lesson 4 Describing Functions</p> <p>1 synchronous day</p> <p>Standards: 8.F.3, 4, 5</p>	<p>Lesson 5 Comparing Functions using Different Representations</p> <p>1 synchronous day</p> <p>Standard: 8.F.2</p>
<p>Review</p> <p>1 synchronous day</p>	<p>Assessment</p> <p>1 asynchronous day</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 5 workspaces ● Imagine Math ● Assessments ● Other Practice 		

Topic 4 Patterns in Bivariate Data

January 11- February 2

<p>Lesson 1 Analyzing Patterns in Scatter Plots</p> <p>2 synchronous days</p> <p>Standard: 8.SP.1</p>	<p>Lesson 2 Drawing Lines of Best Fit</p> <p>1 synchronous day</p> <p>Standard: 8.SP.2, 3</p>	<p>Lesson 3 Analyzing Lines of Best Fit</p> <p>2 synchronous days</p> <p>Standard: 8.SP.2,3</p>	<p>Lesson 5 Two Way Tables</p> <p>2 synchronous day</p> <p>Standard: 8.SP.4</p>	<p>Review</p> <p>1 synchronous day</p>
<p>Assessment</p> <p>1 asynchronous day</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 6 workspaces ● Imagine Math ● Assessments ● Other Practice 			

Carnegie Learning Curriculum

Course 3

Module 3: Modeling Linear Equations

Topic 1

Solving Linear Equations

February 3- February 16

Lesson 1 Equations with Variables on Both Sides	Lesson 2 Analyzing and Solving Linear Equations	Lesson 3 Creating Linear Equations	Review	Assessment
2 synchronous days	2 synchronous days	1 synchronous day	1 synchronous day	1 asynchronous day
Standard: 8.EE.7b	Standard: 8.EE.7a	Standard: 8.EE.7 a, b		
Asynchronous Days: <ul style="list-style-type: none">• Complete Unfinished Work• Mathia- 15 workspaces• Imagine Math• Assessments• Other Practice				

Topic 2

Systems of Linear Equations

February 17- March 5

<p>Lesson 1 Point of Intersection of Linear Graphs</p> <p>2 synchronous days</p> <p>Standard: 8.EE.8a</p>	<p>Lesson 2 Systems of Linear Equations</p> <p>2 synchronous days</p> <p>Standard: 8.EE.8b</p>	<p>Lesson 3 Using Substitution to Solve a Linear System</p> <p>1 synchronous day</p> <p>Standard: 8.EE.8a, b, c</p>	<p>Lesson 4 Choosing a Method to Solve a Linear System</p> <p>2 synchronous days</p> <p>Standard: 8.EE.8a, b, c</p>	<p>Review</p> <p>1 synchronous day</p>
<p>Assessment</p> <p>1 asynchronous day</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 4 workspaces ● Imagine Math ● Assessments ● Other Practice 			

Carnegie Learning Curriculum

Course 3

Module 4: Expanding Number Systems

Topic 1

The Real Number System

March 8- March 17

Lesson 1 Number Sort 1 synchronous day Standards: 8.NS.1	Lesson 2 Rational and Irrational Numbers 2 synchronous day Standards: 8.NS.1	Lesson 3 The Real Numbers 1 synchronous days Standards: 8.NS.2, 8.EE.3	Quiz 1 asynchronous day	Asynchronous Days: <ul style="list-style-type: none">• Complete Unfinished Work• Mathia- 4 workspaces• Imagine Math• Assessments• Other Practice
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Topic 2 Pythagorean Theorem

March 18- April 16

<p>Lesson 1 The Pythagorean Theorem</p> <p>2 synchronous days</p> <p>Standards: 8.EE.2, 8.G.6, 7</p>	<p>Lesson 2 The Converse of the Pythagorean Theorem</p> <p>2 synchronous days</p> <p>Standards: 8.EE.2, 8.G.6, 7</p>	<p>Lesson 3 Distances In a Coordinate System</p> <p>1 synchronous day</p> <p>Standards: 8.EE.2, 8.G.8</p>	<p>Lesson 4 Side Lengths in Two and Three Dimensions</p> <p>2 synchronous days</p> <p>Standards: 8.EE.2, 8.G. 7</p>	<p>Review</p> <p>1 synchronous day</p>
<p>Assessment</p> <p>1 asynchronous day</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 4 workspaces ● Imagine Math ● Assessments ● Other Practice 			

Carnegie Learning Curriculum

Course 3

Module 5: Applying Powers

Topic 1

Exponents and Scientific Notation

April 19- April 30

<p>Lesson 1 Properties of Powers with Integer Exponents</p> <p>2 synchronous days</p> <p>Standards: 8.EE.1</p>	<p>Lesson 2 Analyzing Properties of Powers</p> <p>1 synchronous day</p> <p>Standards: 8.EE.1</p>	<p>Lesson 3 Scientific Notation</p> <p>2 synchronous days</p> <p>Standards: 8.EE.3, 4</p>	<p>Lesson 4 Operations with Scientific Notation</p> <p>2 synchronous days</p> <p>Standards: 8.EE.3, 4</p>	<p>Review</p> <p>1 synchronous day</p>
<p>Assessment</p> <p>1 asynchronous day</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 8 workspaces ● Imagine Math ● Assessments ● Other Practice 			

Topic 3 Volume of Curved Figures

May 3-May 28

<p>Lesson 1 Volume of a Cylinder</p> <p>2 synchronous day</p> <p>Standard: 8.G.9</p>	<p>Lesson 2 Volume of a Cone</p> <p>2 synchronous day</p> <p>Standard: 8.G.9</p>	<p>Lesson 3 Volume of a Sphere</p> <p>2 synchronous day</p> <p>Standard: 8.G.9</p>	<p>Lesson 4 Volume Problems with Cylinders, Cones, and Spheres</p> <p>2 synchronous day</p> <p>Standard: 8.G.9</p>	<p>Review</p> <p>1 synchronous day</p>
<p>Assessment</p> <p>1 asynchronous day</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 7 workspaces ● Imagine Math ● Assessments ● Other Practice 			

