

Carnegie Learning Curriculum

Course 3

Module 1: Transforming Geometric Objects

August 17- September 1

<p>Topic 2 Lesson 2 Dilating Figures on Coordinate Plane</p> <p>1 synchronous day</p> <p>Standards: 8.G.3, 8.G.4</p>	<p>Topic 3 Lesson 1 Triangle Sum and Exterior Angle Theorems</p> <p>2 synchronous days</p> <p>Standards: 8.G.5</p>	<p>Topic 3 Lesson 2 Angle Relationships Formed by Lines Intersected by a Transversal</p> <p>1 synchronous day</p> <p>Standards: 8.G.5</p>	<p>Topic 3 Lesson 3 The Angle-Angle Similarity Theorem</p> <p>1 synchronous day</p> <p>Standards: 8.G.5</p>	<p>Review</p> <p>2 synchronous days</p>
<p>Assessment</p> <p>1 asynchronous day</p>	<p>Asynchronous Days:</p> <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 17 workspaces ● Imagine Math ● Assessments ● Other Practice 			

Carnegie Learning Curriculum

Course 3

Module 2: Developing Functional Foundations

Topic 1

From Proportions to Linear Relationships

September 3- September 25

<p>Lesson 1 Representations of Proportional Relationships 1 synchronous day</p> <p>Standard: 8.EE.5</p>	<p>Lesson 2 Using Similar Triangles to Describe the Steepness of a line 4 synchronous days</p> <p>Standards: 8.EE.5, 8.EE.6</p>	<p>Lesson 3 Exploring Slopes Using Similar Triangles 1 synchronous day</p> <p>Standards: 8.EE.6</p>	<p>Lesson 4 Transformations of Lines 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

September 28- October 23

<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>1 synchronous day</p> <p>Standard: 8.F.4</p>	<p>Lesson 3 Linear Relationships in Contexts</p> <p>1 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

October 26- November 10

<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>1 synchronous day</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

November 12- November 20

<p>Lesson 1 Analyzing Patterns in Scatter Plots</p> <p>1 synchronous day</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>1 synchronous day</p> <p>Standard: 8.SP.2,3</p>	<p>Lesson 5 Two Way Tables</p> <p>1 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

November 30- December 4

Lesson 1 Equations with Variables on Both Sides 1 synchronous day Standard: 8.EE.7b	Lesson 2 Analyzing and Solving Linear Equations 1 synchronous day Standard: 8.EE.7a	Lesson 3 Creating Linear Equations 1 synchronous day Standard: 8.EE.7 a, b	Review 1 synchronous day	Assessment 1 asynchronous day
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

December 7- December 18

<p>Lesson 1 Point of Intersection of Linear Graphs</p> <p>1 synchronous day</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>1 synchronous day</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

January 11- January 15

Lesson 1 Number Sort 1 synchronous day Standards: 8.NS.1	Lesson 2 Rational and Irrational Numbers 1 synchronous day Standards: 8.NS.1	Lesson 3 The Real Numbers 1 synchronous day 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

January 19- February 2

<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>1 synchronous day</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>1 synchronous day</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

February 3- February 19

<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

February 22- March 5

<p>Lesson 1 Volume of a Cylinder</p> <p>1 synchronous day</p> <p>Standard: 8.G.9</p>	<p>Lesson 2 Volume of a Cone</p> <p>1 synchronous day</p> <p>Standard: 8.G.9</p>	<p>Lesson 3 Volume of a Sphere</p> <p>1 synchronous day</p> <p>Standard: 8.G.9</p>	<p>Lesson 4 Volume Problems with Cylinders, Cones, and Spheres</p> <p>1 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 			

Carnegie Learning Curriculum

Integrated Math 1

Module 1: Searching for Patterns

Topic 1 Quantities and Relationships

March 8- March 23

Lesson 1 Analyzing and Sorting Graphs 1 synchronous day Standards: N.Q. 1, 2 A.REI. 10 F.IF.1, 4	Lesson 2 Recognizing Functions and Function Families 1 synchronous day Standards: F.IF. 4	Lesson 3 Recognizing Functions by Characteristics 2 synchronous days Standards: F.IF.1, 4,5	Lesson 4 Constant of Proportionality in Multiple Representations 2 synchronous days Standards: F.IF. 4	Review 1 synchronous day
Assessment 1 asynchronous day	Asynchronous Days: <ul style="list-style-type: none"> ● Complete Unfinished Work ● Mathia- 5 workspaces ● Imagine Math ● Assessments ● Other Practice 			

Topic 2 Sequences

March 24- April 27

<p>Lesson 1 Recognizing Patterns and Sequences</p> <p>2 synchronous days</p> <p>Standards: F.IF. 3,5 F.BF.1a</p>	<p>Lesson 2 Arithmetic and Geometric Sequences</p> <p>2 synchronous days</p> <p>Standards: F.BF.2</p>	<p>Lesson 3 Determining Recursive and Explicit Expressions from Contexts</p> <p>2 synchronous days</p> <p>Standards: F.BF.1a</p>	<p>Lesson 4 Modeling Using Sequences</p> <p>2 synchronous days</p> <p>Standards: F.BF.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- 4 workspaces ● Imagine Math ● Assessments ● Other Practice 			

Topic 3 Linear Regressions

April 28- May 18

<p>Lesson 1 Least Square Regressions</p> <p>2 synchronous days</p> <p>Standards: N.Q.3 S.ID. 6, b, c</p>	<p>Lesson 2 Correlation</p> <p>2 synchronous days</p> <p>Standards: N.Q.3 S.ID. 6, b, c</p>	<p>Lesson 3 Creating Residual Plots</p> <p>2 synchronous days</p> <p>Standards: S.ID. 5, 6, a, b</p>	<p>Lesson 4 Using Residual Plots</p> <p>2 synchronous days</p> <p>Standards: N.Q.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 			

****If we are able to get through content faster, we will continue with Integrated 1****

