



IXL Skill Alignment

8th alignment for Eureka Math Common Core Curriculum

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Module 1

Integer Exponents and Scientific Notation

Textbook section	IXL skills
Topic A: Exponential Notation and Properties of Integer Exponents	F.1 Understanding exponents >>
	F.6 Understanding negative exponents >>
	F.8 Multiplication with exponents >>
	F.9 Division with exponents >>
	F.10 Multiplication and division with exponents >>
	F.11 Power rule >>
	<i>See also:</i>
F.7 Evaluate negative exponents >>	
Topic B: Magnitude and Scientific Notation	G.1 Convert between standard and scientific notation >>
	G.2 Compare numbers written in scientific notation >>
	G.3 Multiply numbers written in scientific notation >>
	G.4 Divide numbers written in scientific notation >>

Module 2

The Concept of Congruence

Textbook section	IXL skills
Topic A: Definitions and Properties of the Basic Rigid Motions	P.7 Rotations: graph the image >>
	P.8 Rotations: find the coordinates >>
	<i>See also:</i>
	P.5 Reflections: graph the image >>
	P.6 Reflections: find the coordinates >>
Topic B: Sequencing the Basic Rigid Motions	P.2 Identify reflections, rotations, and translations >>
	<i>See also:</i>
	P.3 Translations: graph the image >>
	P.4 Translations: find the coordinates >>
Topic C: Congruence and Angle Relationships	O.12 Transversal of parallel lines >>
	<i>See also:</i>
	O.6 Find missing angles in triangles >>
	O.8 Exterior Angle Theorem >>
Topic D: The Pythagorean Theorem	

Module 3

Similarity

Textbook section	IXL skills
Topic A: Dilation	Q.2 Dilations: graph the image >> Q.3 Dilations: find the coordinates >> <i>See also:</i> Q.4 Dilations: scale factor and classification >>
Topic B: Similar Figures	Q.1 Similar and congruent figures >> Q.4 Dilations: scale factor and classification >> <i>See also:</i> Q.5 Side lengths and angle measures of similar figures >>
Topic C: The Pythagorean Theorem	R.5 Converse of the Pythagorean theorem: is it a right triangle? >>

Module 4

Linear Equations

Textbook section	IXL skills
<p>Topic A: Writing and Solving Linear Equations</p>	<p>H.10 Solve proportions >></p> <p>V.1 Write variable expressions >></p> <p>V.9 Identify terms and coefficients >></p> <p>W.1 Which x satisfies an equation? >></p> <p>W.2 Write an equation from words >></p> <p>W.8 Solve multi-step equations >></p> <p>W.9 Solve equations involving like terms >></p> <p>W.10 Solve equations with variables on both sides >></p> <p>W.11 Solve equations: mixed review >></p> <p>W.13 Solve equations: word problems >></p> <p>W.14 Find the number of solutions >></p> <p><i>See also:</i></p> <p>W.6 Solve one-step equations >></p> <p>W.7 Solve two-step equations >></p> <p>Z.13 Interpret linear functions >></p>
<p>Topic B: Linear Equations in Two Variables and Their Graphs</p>	<p>H.7 Solve proportions: word problems >></p> <p>I.3 Identify proportional relationships by graphing >></p> <p>I.8 Interpret graphs of proportional relationships >></p>
<p>Topic C: Slope and Equations of Lines</p>	<p>I.1 Find the constant of proportionality from a table >></p> <p>I.2 Write equations for proportional relationships from tables >></p> <p>I.4 Find the constant of proportionality from a graph >></p> <p>I.9 Write and solve equations for proportional relationships >></p> <p>Y.1 Find the slope of a graph >></p> <p>Y.2 Find the slope from two points >></p> <p>Y.4 Find the slope of a linear equation >></p>

- Y.6** Graph a line from an equation in slope-intercept form >>
- Y.7** Write a linear equation from a slope and y-intercept >>
- Y.8** Write a linear equation from a graph >>
- Y.9** Write a linear equation from a slope and a point >>
- Y.10** Write a linear equation from two points >>
- Z.5** Constant rate of change >>
- Z.6** Evaluate a linear function >>
- Z.7** Complete a table for a linear function >>
- Z.8** Complete a table and graph a linear function >>
- Z.12** Write linear functions: word problems >>

See also:

- I.5** Write equations for proportional relationships from graphs >>
- Y.3** Find a missing coordinate using slope >>
- Y.5** Graph a line using slope >>
- Z.2** Does (x, y) satisfy the linear function? >>
- Z.10** Write a linear function from a table >>

Topic D: Systems of Linear Equations and Their Solutions

- L.6** Convert between Celsius and Fahrenheit >>
- M.2** Guess-and-check word problems >>
- AA.1** Is (x, y) a solution to the system of equations? >>
- AA.2** Solve a system of equations by graphing >>
- AA.3** Solve a system of equations by graphing: word problems >>
- AA.4** Find the number of solutions to a system of equations by graphing >>
- AA.5** Find the number of solutions to a system of equations >>
- AA.8** Solve a system of equations using substitution >>
- AA.9** Solve a system of equations using substitution: word problems >>
- AA.10** Solve a system of equations using elimination >>

AA.11 Solve a system of equations using elimination: word problems >>

See also:

Z.9 Interpret the graph of a linear function: word problems >>

Topic E: Pythagorean Theorem

Module 5

Examples of Functions from Geometry

Textbook section	IXL skills
Topic A: Functions	I.8 Interpret graphs of proportional relationships >>
	Z.1 Identify functions >>
	Z.6 Evaluate a linear function >>
	Z.7 Complete a table for a linear function >>
	Z.10 Write a linear function from a table >>
	Z.12 Write linear functions: word problems >>
	Z.14 Identify linear and nonlinear functions >>
	<i>See also:</i>
	Z.4 Rate of change >>
	Z.15 Does (x, y) satisfy the nonlinear function? >>
	AA.9 Solve a system of equations using substitution: word problems >>
AA.11 Solve a system of equations using elimination: word problems >>	
Topic B: Volume	T.4 Area between two shapes >>
	T.9 Volume of cylinders >>
	T.13 Volume of spheres >>

Module 6

Linear Functions

Textbook section	IXL skills
Topic A: Linear Functions	Y.6 Graph a line from an equation in slope-intercept form >>
	Y.8 Write a linear equation from a graph >>
	Y.10 Write a linear equation from two points >>
	Z.5 Constant rate of change >>
	Z.7 Complete a table for a linear function >>
	Z.8 Complete a table and graph a linear function >>
	Z.9 Interpret the graph of a linear function: word problems >>
	Z.12 Write linear functions: word problems >>
	<i>See also:</i>
	Z.14 Identify linear and nonlinear functions >>
Topic B: Bivariate Numerical Data	CC.14 Scatter plots >>
	DD.8 Outliers in scatter plots >>
	<i>See also:</i>
	Y.10 Write a linear equation from two points >>
Topic C: Linear and Nonlinear Models	Z.3 Identify independent and dependent variables >>
	Z.12 Write linear functions: word problems >>
	Z.13 Interpret linear functions >>
	<i>See also:</i>
	K.10 Simple interest >>
Topic D: Bivariate Categorical Data	DD.10 Identify representative, random, and biased samples >>

Module 7

Introduction to Irrational Numbers Using Geometry

Textbook section	IXL skills	
Topic A: Square and Cube Roots	F.14 Square roots of perfect squares >>	
	F.17 Relationship between squares and square roots >>	
	F.19 Cube roots of perfect cubes >>	
	<i>See also:</i>	
	F.15 Positive and negative square roots >>	
	F.16 Estimate positive and negative square roots >>	
	F.18 Solve equations involving squares and square roots >>	
	F.20 Solve equations involving cubes and cube roots >>	
	Topic B: Decimal Expansions of Numbers	D.4 Convert between decimals and fractions or mixed numbers >>
		D.5 Identify rational and irrational numbers >>
<i>See also:</i>		
A.4 Prime factorization >>		
D.7 Compare rational numbers >>		
D.8 Put rational numbers in order >>		
F.21 Estimate cube roots >>		
T.5 Circles, semicircles, and quarter circles >>		
Topic C: The Pythagorean Theorem		N.4 Find the distance between two points >>
		R.1 Pythagorean theorem: find the length of the hypotenuse >>
	R.2 Pythagorean theorem: find the missing leg length >>	
	R.3 Pythagorean theorem: find the perimeter >>	
	R.4 Pythagorean theorem: word problems >>	
	R.5 Converse of the Pythagorean theorem: is it a right triangle? >>	

Topic D: Applications of Radicals and Roots**T.7** Volume of cubes, prisms, and pyramids >>**T.8** Surface area of cubes, prisms, and pyramids >>**T.9** Volume of cylinders >>**T.13** Volume of spheres >>*See also:***S.5** Similar solids >>