

IXL Skill Alignment

8th alignment for EngageNY Common Core Curriculum

This document includes the IXL skill alignments to New York State Education Department's EngageNY Common Core Curriculum. IXL provides skill alignments as a service to teachers, students, and parents. The following skill alignments are not affiliated with, sponsored by, or endorsed by the publisher of the referenced textbook. IXL and IXL Learning are registered trademarks of IXL Learning, Inc. All other trademarks and registered trademarks are the property of their respective owners.



Integer Exponents and Scientific Notation

Textbook section	IXL skil	lls
Topic A: Exponential Notation and Properties of	F.1	Understanding exponents >>
Integer 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 >>
	See als 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 >>



The Concept of Congruence

Textbook section	IXL skil	ls		
Topic A: Definitions and Properties of the Basic	P.7	Rotations: graph the image >>		
Rigid Motions	P.8	Rotations: find the coordinates >>		
	See als	See also:		
	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 >>		
	See also:			
	P.3	Translations: graph the image >>		
	P.4	Translations: find the coordinates >>		
Topic C: Congruence and Angle Relationships	0.12	Transversal of parallel lines >>		
	See also:			
	0.6	Find missing angles in triangles >>		
	0.8	Exterior Angle Theorem >>		



Similarity

Textbook section	IXL skills	
Topic A: Dilation	Q.2	Dilations: graph the image >>
	Q.3	Dilations: find the coordinates >>
	See als	50:
	Q.4	Dilations: scale factor and classification >>
Topic B: Similar Figures	Q.1	Similar and congruent figures >>
	Q.4	Dilations: scale factor and classification >>
	See also:	
	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? >>



Linear Equations

Textbook section	IXL skill	ls
Topic A: Writing and Solving Linear Equations	H.10	Solve proportions >>
	V.1	Write variable expressions >>
	V.9	Identify terms and coefficients >>
	W.1	Which x satisfies an equation? >>
	W.2	Write an equation from words >>
	W.8	Solve multi-step equations >>
	W.9	Solve equations involving like terms >>
	W.10	Solve equations with variables on both sides >>
	W.11	Solve equations: mixed review >>
	W.13	Solve equations: word problems >>
	W.14	Find the number of solutions >>
	See also	0:
	W.6	Solve one-step equations >>
	W.7	Solve two-step equations >>
	Z.13	Interpret linear functions >>
Topic B: Linear Equations in Two Variables and	H.7	Solve proportions: word problems >>
Their Graphs	1.3	Identify proportional relationships by graphing >>
	1.8	Interpret graphs of proportional relationships >>
Topic C: Slope and Equations of Lines	1.1	Find the constant of proportionality from a table >>
	1.2	Write equations for proportional relationships from tables >>
	1.4	Find the constant of proportionality from a graph >>
	1.9	Write and solve equations for proportional relationships >>
	Y.1	Find the slope of a graph >>
	Y.1 Y.2	Find the slope of a graph >> Find the slope from two points >>

Topic D: Systems of Linear Equations and Their

Solutions



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):
1.5	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 >>
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



Examples of Functions from Geometry

Textbook section	IXL skills	IXL skills	
Topic A: Functions	1.8	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 >>	
	See also	o:	
	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	Т.4	Area between two shapes >>	
	Т.9	Volume of cylinders >>	
	T.13	Volume of spheres >>	



Linear Functions

Textbook section	IXL skill	ls	
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 >>	
	See also:		
	Z.14	Identify linear and nonlinear functions >>	
Topic B: Bivariate Numerical Data	CC.14	Scatter plots >>	
	DD.8	Outliers in scatter plots >>	
	See also:		
	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 >>	
	See also	0:	
	K.10	Simple interest >>	
Topic D: Bivariate Categorical Data	DD.10	Identify representative, random, and biased samples >>	



Introduction to Irrational Numbers Using Geometry

Textbook section	IXL skil	lls	
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 >>	
	See als	50:	
	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 >>	
	See also:		
	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 als S.5	so: Similar solids >>