IXL Skill Alignment

8th alignment for Big Ideas Math Common Core Curriculum

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Chapter 1

Equations

Textbook section	IXL skills	
Section 1.1: Solving Simple Equations	**W.1**	Which x satisfies an equation? >>
	W.5	Properties of equality >>
	W.6	Solve one-step equations >>
Section 1.2: Solving Multi-Step Equations	**W.7**	Solve two-step equations >>
	W.8	Solve multi-step equations >>
	W.9	Solve equations involving like terms >>
	W.13	Solve equations: word problems >>
Section 1.3: Solving Equations With Variables on Both Sides	**W.10**	Solve equations with variables on both sides >>
	W.11	Solve equations: mixed review >>
	W.12	Solve equations: complete the solution >>
Section 1.4: Rewriting Equations and Formulas	**L.6**	Convert between Celsius and Fahrenheit >>

Chapter 2
Transformations

Textbook section	IXL skills	
Section 2.1: Congruent Figures	**P.9**	Congruence statements and corresponding parts >>
	P.10	Side lengths and angle measures of congruent figures >>
Section 2.2: Translations	**P.3**	Translations: graph the image >>
	P.4	Translations: find the coordinates >>
Section 2.3: Reflections	**P.5**	Reflections: graph the image >>
	P.6	Reflections: find the coordinates >>
Section 2.4: Rotations	**P.2**	Identify reflections, rotations, and translations >>
	P.7	Rotations: graph the image >>
	P.8	Rotations: find the coordinates >>
Section 2.5: Similar Figures	**Q.1**	Similar and congruent figures >>
	Q.5	Side lengths and angle measures of similar figures >>
Section 2.6: Perimeters and Areas of Similar Figures		
Section 2.7: Dilations	**Q.2**	Dilations: graph the image >>
	Q.3	Dilations: find the coordinates >>
	Q.4	Dilations: scale factor and classification >>

Chapter 3

Angles and Triangles

Textbook section	IXL skills	
Section 3.1: Parallel Lines and Transversals	**O.10**	Identify complementary, supplementary, vertical, adjacent, and congruent angles >>
	O.12	Transversal of parallel lines >>
Section 3.2: Angles of Triangles	**O.6**	Find missing angles in triangles >>
	O.8	Exterior Angle Theorem >>
Section 3.3: Angles of Polygons	**O.9**	Interior angles of polygons >>
Section 3.4: Using Similar Triangles		

Chapter 4

Graphing and Writing Linear Equations

Textbook section	IXL skills	
Section 4.1: Graphing Linear Equations	**Y.6**	Graph a line from an equation in slope-intercept form >>
	Z.8	Complete a table and graph a linear function >>
Section 4.2: Slope of a Line	**Y.1**	Find the slope of a graph >>
	Y.2	Find the slope from two points >>
Section 4.3: Graphing Proportional Relationships	**I.1**	Find the constant of proportionality from a table >>
	I.2	Write equations for proportional relationships from tables >>
	I.3	Identify proportional relationships by graphing >>
	I.5	Write equations for proportional relationships from graphs >>
	I.6	Identify proportional relationships >>
	I.7	Graph proportional relationships >>
Section 4.4: Graphing Linear Equations in Slope-Intercept Form	**Y.4**	Find the slope of a linear equation >>
	Y.6	Graph a line from an equation in slope-intercept form >>
Section 4.5: Graphing LInear Equations in Standard Form	**Y.11**	Convert a linear equation in standard form to slope-intercept form >>
	Y.12	Graph a line from an equation in standard form >>
Section 4.6: Writing Equations 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.10	Write a linear equation from two points >>
Section 4.7: Writing Equations in Point-Slope Form		

Chapter 5

Systems of Linear Equations

Textbook section	IXL skills	
Section 5.1: Solving Systems of Linear Equations by Graphing	**AA.2**	Solve a system of equations by graphing >>
	AA.3	Solve a system of equations by graphing: word problems >>
Section 5.2: Solving Systems of Linear Equations by Substitution	**AA.8**	Solve a system of equations using substitution >>
	AA.9	Solve a system of equations using substitution: word problems >>
Section 5.3: Solving Systems of Linear Equations by Elimination	**AA.10**	Solve a system of equations using elimination >>
	AA.11	Solve a system of equations using elimination: word problems >>
Section 5.4: Solving Special Systems of LInear Equations	**AA.1**	Is (x, y) a solution to the system of equations? >>
	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 >>

Chapter 6

Functions

Textbook section	IXL skills	
Section 6.1: Relations and Functions	**Z.1**	Identify functions >>
Section 6.2: Representations of Functions	**Z.6**	Evaluate a linear function >>
	Z.7	Complete a table for a linear function >>
Section 6.3: Linear Functions	**Z.2**	Does (x, y) satisfy the linear function? >>
	Z.3	Identify independent and dependent variables >>
	Z.10	Write a linear function from a table >>
	Z.12	Write linear functions: word problems >>
Section 6.4: Comparing Linear and Nonlinear Functions	**Z.14**	Identify linear and nonlinear functions >>
Section 6.5: Analyzing and Sketching Graphs		

Chapter 7

Real Numbers and the Pythagorean Theorem

Textbook section	IXL skills	
Section 7.1: Finding Square Roots	**F.14**	Square roots of perfect squares >>
	F.15	Positive and negative square roots >>
	F.17	Relationship between squares and square roots >>
Section 7.2: Finding Cube Roots	**A.4**	Prime factorization >>
	F.19	Cube roots of perfect cubes >>
Section 7.3: The Pythagorean Theorem	**R.1**	Pythagorean theorem: find the length of the hypotenuse >>
	R.2	Pythagorean theorem: find the missing leg length >>
	R.4	Pythagorean theorem: word problems >>
Section 7.4: Approximating Square Roots	**D.5**	Identify rational and irrational numbers >>
	F.16	Estimate positive and negative square roots >>
Section 7.5: Using the Pythagroean Theorem	**N.4**	Find the distance between two points >>
	R.5	Converse of the Pythagorean theorem: is it a right triangle? >>

Chapter 8

Volume and Similar Solids

Textbook section	IXL skills	
Section 8.1: Volumes of Cylinders	**T.9**	Volume of cylinders >>
Section 8.2: Volumes of Cones	**T.10**	Volume of cones >>
Section 8.3: Volumes of Spheres	**T.13**	Volume of spheres >>
Section 8.4: Surface Areas and Volumes of Similar Solids	**T.15**	Volume and surface area of similar solids >>

Chapter 9

Data Analysis and Displays

Textbook section	IXL skills	
Section 9.1: Scatter Plots	**CC.14**	Scatter plots >>
	DD.8	Outliers in scatter plots >>
Section 9.2: Lines of Fit	**DD.9**	Scatter plots: line of best fit >>
Section 9.3: Two-Way Tables		
Section 9.4: Choosing a Data Display	**CC.17**	Choose the best type of graph >>

Chapter 10

Exponents and Scientific Notation

Textbook section	IXL skills	
Section 10.1: Exponents	**F.1**	Understanding exponents >>
	F.2	Evaluate exponents >>
	F.4	Exponents with negative bases >>
	F.5	Exponents with decimal and fractional bases >>
Section 10.2: Product of Powers Property	**F.8**	Multiplication with exponents >>
Section 10.3: Quotient of Powers Property	**F.9**	Division with exponents >>
	F.10	Multiplication and division with exponents >>
	F.11	Power rule >>
Section 10.4: Zero and Negative Exponents	**F.6**	Understanding negative exponents >>
	F.7	Evaluate negative exponents >>
	F.12	Evaluate expressions using properties of exponents >>
Section 10.5: Reading Scientific Notation	**G.2**	Compare numbers written in scientific notation >>
Section 10.6: Writing Scientific Notation	**G.1**	Convert between standard and scientific notation >>
Section 10.7: Operations in Scientific Notation	**G.3**	Multiply numbers written in scientific notation >>
	G.4	Divide numbers written in scientific notation >>