



IXL Skill Alignment

6th alignment for Big Ideas Math Common Core Curriculum

This document includes the IXL skill alignments to Big Ideas Learning's **Big Ideas Math 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.

Chapter 1

Numerical Expressions and Factors

Textbook section	IXL skills
1.1: Whole Number Operations	A.5 Add and subtract whole numbers >>
	A.6 Add and subtract whole numbers: word problems >>
	B.1 Multiply whole numbers >>
	B.2 Multiply whole numbers: word problems >>
	O.1 Add, subtract, multiply, or divide two whole numbers >>
	O.2 Add, subtract, multiply, or divide two whole numbers: word problems >>
1.2: Powers and Exponents	D.1 Write multiplication expressions using exponents >>
	D.2 Evaluate exponents >>
	D.3 Find the missing exponent or base >>
1.3: Order of Operations	O.3 Evaluate numerical expressions involving whole numbers >>
1.4: Prime Factorization	C.1 Divisibility rules >>
	E.4 Identify factors >>
	E.5 Prime factorization >>
1.5: Greatest Common Factor	E.7 Greatest common factor >>
1.6: Least Common Multiple	E.8 Least common multiple >>
	E.9 GCF and LCM: word problems >>

Chapter 2

Fractions and Decimals

Textbook section	IXL skills
2.1: Multiplying Fractions	K.1 Fractions of whole numbers I >>
	K.2 Fractions of whole numbers II >>
	K.5 Multiply two fractions using models >>
	K.6 Multiply two fractions >>
	K.7 Multiply fractions: word problems >>
	K.11 Multiply mixed numbers >>
	K.12 Multiply mixed numbers: word problems >>
2.2: Dividing Fractions	L.1 Divide whole numbers by unit fractions using models >>
	L.2 Reciprocals >>
	L.3 Divide whole numbers and unit fractions >>
	L.5 Divide fractions >>
2.3: Dividing Mixed Numbers	L.4 Divide fractions by whole numbers in recipes >>
	L.6 Estimate quotients when dividing mixed numbers >>
	L.7 Divide fractions and mixed numbers >>
	L.8 Divide fractions and mixed numbers: word problems >>
	O.7 Add, subtract, multiply, or divide two fractions >>
	O.8 Add, subtract, multiply, or divide two fractions: word problems >>
2.4: Adding and Subtracting Decimals	G.1 Add and subtract decimal numbers >>
	G.2 Add and subtract decimals: word problems >>
2.5: Multiplying Decimals	H.1 Estimate products of decimal numbers >>
	H.2 Multiply decimals >>

2.6: Dividing Decimals

- H.4** Divide decimals by whole numbers >>
 - H.5** Divide decimals by whole numbers: word problems >>
 - H.7** Division with decimal quotients >>
 - O.4** Add, subtract, multiply, or divide two decimals >>
 - O.5** Add, subtract, multiply, or divide two decimals: word problems >>
 - O.6** Evaluate numerical expressions involving decimals >>
-

Chapter 3

Algebraic Expressions and Properties

Textbook section	IXL skills	
3.1: Algebraic Expressions	Y.3	Evaluate variable expressions with whole numbers >>
	Y.4	Evaluate multi-variable expressions >>
	Y.6	Identify terms and coefficients >>
3.2: Writing Expressions	Y.1	Write variable expressions >>
	Y.2	Write variable expressions: word problems >>
3.3: Properties of Addition and Multiplication	Y.8	Properties of addition >>
	Y.9	Properties of multiplication >>
3.4: The Distributive Property	Y.10	Multiply using the distributive property >>
	Y.13	Write equivalent expressions using properties >>
	Y.15	Identify equivalent expressions >>

Chapter 4

Areas of Polygons

Textbook section	IXL skills
4.1: Areas of Parallelograms	
4.2: Areas of Triangles	FF.3 Area of triangles >>
4.3: Areas of Trapezoids	FF.4 Area of parallelograms and trapezoids >> FF.5 Area of quadrilaterals >> FF.6 Area of compound figures >>
4.4: Polygons in the Coordinate Plane	CC.7 Graph triangles and quadrilaterals >>

Chapter 5

Ratios and Rates

Textbook section	IXL skills
5.1: Ratios	R.1 Write a ratio >> R.2 Write a ratio: word problems >>
5.2: Ratio Tables	R.3 Identify equivalent ratios >> R.4 Write an equivalent ratio >> R.5 Ratio tables >> R.6 Equivalent ratios: word problems >>
5.3: Rates	R.7 Unit rates and equivalent rates >> R.9 Unit rates: word problems >>
5.4: Comparing and Graphing Ratios	R.8 Compare ratios: word problems >>
5.5: Percents	S.3 Compare percents to each other and to fractions >> S.8 Find what percent one number is of another >> S.9 Find what percent one number is of another: word problems >>
5.6: Solving Percent Problems	S.4 Compare percents and fractions: word problems >> S.6 Percents of numbers: word problems >> S.9 Find what percent one number is of another: word problems >> S.10 Find the total given a part and a percent >>
5.7: Converting Measures	T.8 Convert between customary and metric systems >>

Chapter 6

Integers and the Coordinate Plane

Textbook section	IXL skills
6.1: Integers	M.1 Understanding integers >>
	M.2 Integers on number lines >>
	M.4 Graph integers on horizontal and vertical number lines >>
6.2: Comparing and Ordering Integers	M.5 Compare integers >>
	M.6 Put integers in order >>
6.3: Fractions and Decimals on the Number Line	F.8 Decimal number lines >>
6.4: Absolute Value	M.3 Absolute value and opposite integers >>
6.5: The Coordinate Plane	X.1 Objects on a coordinate plane >>
	X.2 Graph points on a coordinate plane >>
	X.3 Quadrants >>
	X.5 Distance between two points >>

Chapter 7

Equations and Inequalities

Textbook section	IXL skills	
7.1: Writing Equations in One Variable		
7.2: Solving Equations Using Addition or Subtraction		
7.3: Solving Equations Using Multiplication or Division	Z.6	Solve one-step equations with whole numbers >>
	Z.7	Solve one-step equations with decimals, fractions, and mixed numbers >>
	Z.8	Solve one-step equations: word problems >>
7.4: Writing Equations in Two Variables	BB.1	Does (x, y) satisfy an equation? >>
	BB.2	Identify independent and dependent variables >>
	BB.4	Solve word problems involving two-variable equations >>
	BB.5	Complete a table for a two-variable relationship >>
	BB.6	Write a two-variable equation >>
7.5: Writing and Graphing Inequalities	AA.1	Solutions to inequalities >>
	AA.2	Graph inequalities on number lines >>
	AA.3	Write inequalities from number lines >>
7.6: Solving Inequalities Using Addition or Subtraction		
7.7: Solving Inequalities Using Multiplication or Division	AA.4	Solve one-step inequalities >>
	AA.5	Graph solutions to one-step inequalities >>

Chapter 8

Surface Area and Volume

Textbook section	IXL skills
8.1: Three-Dimensional Figures	EE.1 Identify polyhedra >>
	EE.2 Which figure is being described? >>
	EE.4 Front, side, and top view >>
8.2: Surface Areas of Prisms	FF.15 Surface area of cubes and rectangular prisms >>
8.3: Surface Areas of Pyramids	
8.4: Volume of Rectangular Prisms	FF.14 Volume of cubes and rectangular prisms >>

Chapter 9

Statistical Measures

Textbook section	IXL skills
9.1: Introduction to Statistics	GG.3 Interpret line plots >> GG.4 Create line plots >>
9.2: Mean	
9.3: Measures of Center	
9.4: Measures of Variation	HH.1 Calculate mean, median, mode, and range >> HH.2 Interpret charts and graphs to find mean, median, mode, and range >>
9.5: Mean Absolute Deviation	HH.4 Calculate mean absolute deviation >>

Chapter 10

Data Displays

Textbook section	IXL skills
10.1: Stem-and-Leaf Plots	GG.18 Stem-and-leaf plots >>
10.2: Histograms	GG.11 Interpret histograms >> GG.12 Create histograms >>
10.3: Shapes of Distributions	
10.4: Box-and-Whisker Plots	GG.19 Interpret box-and-whisker plots >>