IXL Skill Alignment

7th alignment for Big Ideas Math Common Core Curriculum

IXL

Chapter 1
Integers

Textbook section	IXL skills	
1.1: Integers and Absolute Value	**B.2**	Integers on number lines >>
	B.4	Absolute value and opposite integers >>
	B.5	Compare and order integers >>
1.2: Adding Integers		
1.3: Subtracting Integers	**C.1**	Integer addition and subtraction rules >>
	C.2	Add and subtract integers using counters >>
	C.3	Add and subtract integers >>
	C.4	Complete addition and subtraction equations with integers >>
	C.5	Add and subtract integers: word problems >>
1.4: Multiplying Integers		
1.5: Dividing Integers	**C.6**	Integer multiplication and division rules >>
	C.7	Multiply and divide integers >>
	C.8	Complete multiplication and division equations with integers >>

Chapter 2
Rational Numbers

Textbook section	IXL skills	
2.1: Rational Numbers	F.6	Compare and order fractions >>
	H.1	Convert between decimals and fractions or mixed numbers >>
	H.2	Identify rational numbers >>
	H.4	Compare rational numbers >>
	H.5	Put rational numbers in order >>
2.2: Adding Rational Numbers		
2.3: Subtracting Rational Numbers	E.1	Add and subtract decimals >>
	E.2	Add and subtract decimals: word problems >>
	G.1	Add and subtract fractions >>
	G.2	Add and subtract fractions: word problems >>
	G.3	Add and subtract mixed numbers >>
	H.6	Add and subtract rational numbers >>
	H.7	Apply addition and subtraction rules >>
2.4: Multiplying and Dividing Rational Numbers	E.3	Multiply decimals >>
	E.5	Divide decimals >>
	E.8	Add, subtract, multiply, and divide decimals: word problems >>
	G.9	Multiply fractions >>
	G.10	Multiply mixed numbers >>
	G.12	Divide fractions >>
	G.13	Divide mixed numbers >>
	G.16	Add, subtract, multiply, and divide fractions and mixed numbers: word problems >>
	H.8	Multiply and divide rational numbers >>
	H.9	Apply multiplication and division rules >>

Chapter 3
Expressions and Equations

Textbook section	IXL skills	
3.1: Algebraic Expressions	**R.3**	Evaluate linear expressions >>
	R.10	Multiply using the distributive property >>
	R.12	Write equivalent expressions using properties >>
3.2: Adding and Subtracting Linear Expressions	**R.14**	Add, subtract, and multiply linear expressions >>
	R.16	Identify equivalent linear expressions >>
3.3: Solving Equations Using Addition or Subtraction		
3.4: Solving Equations Using Multiplication or Division	**R.11**	Solve equations using properties >>
	S.5	Solve one-step equations >>
3.5: Solving Two-Step Equations	**S.3**	Model and solve equations using algebra tiles >>
	S.6	Solve two-step equations >>
	S.7	Solve equations: word problems >>
	S.9	Solve equations: complete the solution >>

Chapter 4
Inequalities

Textbook section	IXL skills	
4.1: Writing and Graphing Inequalities	**T.1**	Solutions to inequalities >>
	T.2	Graph inequalities on number lines >>
	T.3	Write inequalities from number lines >>
4.2: Solving Inequalities Using Addition or Subtraction		
4.3: Solving Inequalities Using Multiplication or Division	**T.4**	Solve one-step inequalities >>
	T.5	Graph solutions to one-step inequalities >>
4.4: Solving Two-Step Inequalities	**T.6**	Solve two-step inequalities >>
	T.7	Graph solutions to two-step inequalities >>

Chapter 5

Ratios and Proportions

Textbook section	IXL skills	
5.1: Ratios and Rates	**J.2**	Identify equivalent ratios >>
	J.3	Write an equivalent ratio >>
	J.4	Equivalent ratios: word problems >>
	J.5	Unit rates >>
5.2: Proportions	**J.8**	Do the ratios form a proportion? >>
	J.9	Do the ratios form a proportion: word problems >>
5.3: Writing Proportions		
5.4: Solving Proportions	**J.10**	Solve proportions >>
	J.11	Solve proportions: word problems >>
5.5: Slope	**V.1**	Find the slope from a graph >>
	V.2	Find the slope from two points >>
5.6: Direct Variation	**K.1**	Find the constant of proportionality from a table >>
	K.2	Write equations for proportional relationships from tables >>
	K.3	Identify proportional relationships by graphing >>
	K.4	Find the constant of proportionality from a graph >>
	K.5	Write equations for proportional relationships from graphs >>
	K.6	Identify proportional relationships >>

Chapter 6
Percents

Textbook section	IXL skills	
6.1: Percents and Decimals	**L.1**	What percentage is illustrated? >>
	L.2	Convert between percents, fractions, and decimals >>
6.2: Comparing and Ordering Fractions, Decimals, and Percents	**L.3**	Compare percents to fractions and decimals >>
6.3: The Percent Proportion	**L.4**	Estimate percents of numbers >>
	L.5	Percents of numbers and money amounts >>
	L.6	Percents of numbers: word problems >>
6.4: The Percent Equation	**L.7**	Solve percent equations >>
	L.8	Solve percent equations: word problems >>
6.5: Percents of Increase and Decrease	**L.9**	Percent of change >>
	L.10	Percent of change: word problems >>
6.6: Discounts and Markups	**M.6**	Percent of a number: tax, discount, and more >>
	M.7	Find the percent: tax, discount, and more >>
	M.8	Sale prices: find the original price >>
	M.9	Multi-step problems with percents >>
6.7: Simple Interest	**M.11**	Simple interest >>

Chapter 7
Constructions and Scale Drawings

Textbook section	IXL skills	
7.1: Adjacent and Vertical Angles		
7.2: Complementary and Supplementary Angles	**W.12**	Identify complementary, supplementary, vertical, adjacent, and congruent angles >>
	W.13	Find measures of complementary, supplementary, vertical, and adjacent angles >>
7.3: Triangles	**W.3**	Classify triangles >>
7.4: Quadrilaterals	**W.4**	Identify trapezoids >>
	W.5	Classify quadrilaterals >>
7.5: Scale Drawings	**J.7**	Scale drawings: word problems >>

Chapter 8
Circles and Area

Textbook section	IXL skills	
8.1: Circles and Circumference		
8.2: Perimeters of Composite Figures	**AA.1**	Perimeter >>
8.3: Areas of Circles	**AA.5**	Circles: calculate area, circumference, radius, and diameter >>
	AA.6	Circles: word problems >>
	AA.10	Semicircles: calculate area, perimeter, radius, and diameter >>
8.4: Areas of Composite Figures	**AA.12**	Area of compound figures with triangles, semicircles, and quarter circles >>

Chapter 9
Surface Area and Volume

Textbook section	IXL skills	
9.1: Surface Areas of Prisms	**AA.8**	Surface area >>
9.2: Surface Areas of Pyramids		
9.3: Surface Areas of Cylinders	**Z.2**	Nets of three-dimensional figures >>
9.4: Volumes of Prisms	**AA.7**	Volume >>
9.5: Volumes of Pyramids		

Chapter 10
Probability and Statistics

Textbook section	IXL skills	
10.1: Outcomes and Events		
10.2: Probability	**DD.1**	Probability of simple events >>
10.3: Experimental and Theoretical Probability	**DD.2**	Probability of opposite, mutually exclusive, and overlapping events >>
	DD.3	Experimental probability >>
10.4: Compound Events	**DD.5**	Compound events: find the number of outcomes >>
10.5: Independent and Dependent Events	**DD.6**	Identify independent and dependent events >>
	DD.7	Probability of independent and dependent events >>
10.6: Samples and Populations	**CC.6**	Identify representative, random, and biased samples >>
10.7: Comparing Populations		