IXL Skill Alignment

7th alignment for Glencoe Math Common Core Edition

Chapter 1
Ratios and Proportional Reasoning

Textbook section	IXL skills	
Lesson 1: Rates	J.5	Unit rates >>
	M.3	Unit prices >>
Lesson 2: Complex Fractions and Unit Rates	G.12	Divide fractions >>
Lesson 3: Convert Unit Rates	M.4	Unit prices with unit conversions >>
Lesson 4: Proportional and Nonproportional Relationships	J.2	Identify equivalent ratios >>
	J.4	Equivalent ratios: word problems >>
	J.8	Do the ratios form a proportion? >>
	J.9	Do the ratios form a proportion: word problems >>
Lesson 5: Graph Proportional Relationships	K.3	Identify proportional relationships by graphing >>
	K.6	Identify proportional relationships >>
Lesson 6: Solve Proportional Relationships	J.10	Solve proportions >>
	J.11	Solve proportions: word problems >>
	J.12	Estimate population size using proportions >>
Lesson 7: Constant Rate of Change	J.14	Constant rate of change >>
	K.7	Interpret graphs of proportional relationships >>
Lesson 8: Slope	V.1	Find the slope from a graph >>
Lesson 9: Direct Variation	K.1	Find the constant of proportionality from a table >>
	K.4	Find the constant of proportionality from a graph >>

Chapter 2
Percents

Textbook section	IXL skills	
Lesson 1: Percent of a Number	**L.5**	Percents of numbers and money amounts >>
	L.6	Percents of numbers: word problems >>
Lesson 2: Percent and Estimation	**L.4**	Estimate percents of numbers >>
Lesson 3: The Percent Proportion		
Lesson 4: The Percent Equation	**L.7**	Solve percent equations >>
	L.8	Solve percent equations: word problems >>
Lesson 5: Percent of Change	**L.9**	Percent of change >>
	L.10	Percent of change: word problems >>
Lesson 6: Sales Tax, Tips, and Markup		
Lesson 7: Discount	**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 >>
Lesson 8: Financial Literacy: Simple Interest	**M.11**	Simple interest >>

Chapter 3

Integers

Textbook section	IXL skills	
Lesson 1: Integers and Absolute Value	**B.1**	Understanding integers >>
	B.2	Integers on number lines >>
	B.3	Graph integers on horizontal and vertical number lines >>
	B.4	Absolute value and opposite integers >>
Lesson 2: Add Integers		
Lesson 3: Subtract 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 >>
Lesson 4: Multiply Integers		
Lesson 5: Divide Integers	**C.6**	Integer multiplication and division rules >>
	C.7	Multiply and divide integers >>
	C.8	Complete multiplication and division equations with integers >>

Chapter 4
Rational Numbers

Textbook section	IXL skills	
Lesson 1: Terminating and Repeating Decimals	**H.1**	Convert between decimals and fractions or mixed numbers >>
Lesson 2: Compare and Order Rational Numbers	**H.4**	Compare rational numbers >>
	H.5	Put rational numbers in order >>
Lesson 3: Add and Subtract Like Fractions		
Lesson 4: Add and Subtract Unlike Fractions	**G.1**	Add and subtract fractions >>
	G.2	Add and subtract fractions: word problems >>
Lesson 5: Add and Subtract Mixed Numbers	**G.3**	Add and subtract mixed numbers >>
	G.4	Add and subtract mixed numbers: word problems >>
Lesson 6: Multiply Fractions	**G.7**	Multiply fractions and whole numbers >>
	G.9	Multiply fractions >>
	G.10	Multiply mixed numbers >>
	G.11	Multiply fractions and mixed numbers: word problems >>
Lesson 7: Convert Between Systems	**O.6**	Convert between customary and metric systems >>
Lesson 8: Divide Fractions	**G.12**	Divide fractions >>
	G.13	Divide mixed numbers >>
	G.14	Divide fractions and mixed numbers: word problems >>

Chapter 5
Expressions

Textbook section	IXL skills	
Lesson 1: Algebraic Expressions	R.1	Write variable expressions >>
	R.2	Write variable expressions: word problems >>
	R.3	Evaluate linear expressions >>
	R.4	Evaluate multi-variable expressions >>
	R.6	Evaluate nonlinear expressions >>
Lesson 2: Sequences	Q.2	Arithmetic sequences >>
	Q.7	Write variable expressions for arithmetic sequences >>
Lesson 3: Properties of Operations		
Lesson 4: The Distributive Property	R.9	Properties of addition and multiplication >>
	R.10	Multiply using the distributive property >>
Lesson 5: Simplify Algebraic Expressions	R.12	Write equivalent expressions using properties >>
	R.13	Add and subtract like terms >>
	R.16	Identify equivalent linear expressions >>
Lesson 6: Add Linear Expressions		
Lesson 7: Subtract Linear Expressions	R.14	Add, subtract, and multiply linear expressions >>

Chapter 6
Equations and Inequalities

Textbook section	IXL skills	
Lesson 1: Solve One-Step Addition and Subtraction Equations		
Lesson 2: Multiplication and Division Equations	S.5	Solve one-step equations >>
Lesson 3: Solve Equations with Rational Coefficients	S.5	Solve one-step equations >>
Lesson 4: Solve Two-Step Equations	S.3	Model and solve equations using algebra tiles >>
	S.4	Write and solve equations that represent diagrams >>
	S.6	Solve two-step equations >>
Lesson 5: More Two-Step Equations	S.7	Solve equations: word problems >>
	S.9	Solve equations: complete the solution >>
Lesson 6: Solve Inequalities by Addition or Subtraction		
Lesson 7: Solve Inequalities by Multiplication or Division	T.4	Solve one-step inequalities >>
	T.5	Graph solutions to one-step inequalities >>
Lesson 8: Solve Two-Step Inequalities	T.6	Solve two-step inequalities >>
	T.7	Graph solutions to two-step inequalities >>

Chapter 7

Geometric Figures

Textbook section	IXL skills	
Lesson 1: Classify Angles	**W.2**	Name, measure, and classify angles >>
Lesson 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 >>
Lesson 3: Triangles	**W.3**	Classify triangles >>
	W.7	Find missing angles in triangles >>
Lesson 4: Scale Drawings	**J.7**	Scale drawings: word problems >>
Lesson 5: Draw Three-Dimensional Figures	**Z.3**	Front, side, and top view >>
Lesson 6: Cross Sections	**Z.1**	Bases of three-dimensional figures >>
	Z.4	Cross-sections of three-dimensional figures >>

Chapter 8
Measure Figures

Textbook section	IXL skills	
Lesson 1: Circumference	**W.16**	Parts of a circle >>
Lesson 2: Area of Circles	**AA.5**	Circles: calculate area, circumference, radius, and diameter >>
	AA.6	Circles: word problems >>
Lesson 3: Area of Composite Figures	**AA.12**	Area of compound figures with triangles, semicircles, and quarter circles >>
	AA.13	Area between two shapes >>
Lesson 4: Volume of Prisms	**AA.7**	Volume >>
Lesson 5: Volume of Pyramids		
Lesson 6: Surface Area of Prisms	**AA.8**	Surface area >>
Lesson 7: Surface Area of Pyramids		
Lesson 8: Volume and Surface Area of Composite Figures		

Chapter 9
Probability

Textbook section	IXL skills	
Lesson 1: Probability of Simple Events	**DD.1**	Probability of simple events >>
Lesson 2: Theoretical and Experimental Probability	**DD.2**	Probability of opposite, mutually exclusive, and overlapping events >>
	DD.3	Experimental probability >>
Lesson 3: Probability of Compound Events	**DD.5**	Compound events: find the number of outcomes >>
Lesson 4: Simulations		
Lesson 5: Fundamental Counting Principle	**DD.10**	Counting principle >>
Lesson 6: Permutations	**DD.9**	Permutations >>
Lesson 7: Independent and Dependent Events	**DD.6**	Identify independent and dependent events >>
	DD.7	Probability of independent and dependent events >>

Chapter 10
Statistics

Textbook section	IXL skills	
Lesson 1: Make Predictions	**J.12**	Estimate population size using proportions >>
Lesson 2: Unbiased and Biased Samples	**CC.6**	Identify representative, random, and biased samples >>
Lesson 3: Misleading Graphs and Statistics	**CC.2**	Interpret charts and graphs to find mean, median, mode, and range >>
Lesson 4: Compare Populations		
Lesson 5: Select and Appropriate Display	**BB.17**	Choose the best type of graph >>