IXL Skill Alignment

8th alignment for GO Math! 2014 Common Core Edition

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Module 1

Real Numbers

Textbook section	IXL skills	
1.1: Rational and Irrational Numbers	**D.4**	Convert between decimals and fractions or mixed numbers >>
	F.18	Solve equations involving squares and square roots >>
1.2: Sets of Real Numbers	**A.8**	Classify numbers >>
1.3: Ordering Real Numbers		

Module 2

Exponents and Scientific Notation

Textbook section	IXL skills	
2.1: Integer Exponents	**F.1**	Understanding exponents >>
	F.2	Evaluate exponents >>
	F.6	Understanding negative exponents >>
	F.7	Evaluate negative exponents >>
	F.12	Evaluate expressions using properties of exponents >>
	See also:	
	F.8	Multiplication with exponents >>
	F.9	Division with exponents >>
	F.10	Multiplication and division with exponents >>
	F.11	Power rule >>
2.2: Scientific Notation with Positive Powers of 10	**G.1**	Convert between standard and scientific notation >>
2.3: Scientific Notation with Negative Powers of 10	**G.1**	Convert between standard and scientific notation >>
2.4: Operations with Scientific Notation	**G.3**	Multiply numbers written in scientific notation >>
	G.4	Divide numbers written in scientific notation >>

Module 3

Proportional Relationships

Textbook section	IXL skills
3.1: Representing Proportional Relationships	**I.1** Find the constant of proportionality from a table >> **I.2** Write equations for proportional relationships from tables >> **I.6** Identify proportional relationships >> **I.9** Write and solve equations for proportional relationships >> *See also:* **I.3** Identify proportional relationships by graphing >>
3.2: Rate of Change and Slope	**I.4** Find the constant of proportionality from a graph >> **Y.1** Find the slope of a graph >> **Y.2** Find the slope from two points >> *See also:* **I.9** Write and solve equations for proportional relationships >>
3.3: Interpreting the Unit Rate as Slope	

Module 4

Nonproportional Relationships

Textbook section	IXL skills	
4.1: Representing Linear Nonproportional Relationships	**Z.7**	Complete a table for a linear function >>
	Z.8	Complete a table and graph a linear function >>
4.2: Determining Slope and y-Intercept		
4.3: Graphing Linear Nonproportional Relationships Using Slope and y-Intercept		
4.4: Proportional and Nonproportional Situations	**I.3**	Identify proportional relationships by graphing >>
	I.6	Identify proportional relationships >>

Module 5

Writing Linear Equations

Textbook section	IXL skills
5.1: Writing Linear Equations from Situations and Graphs	**Y.1** Find the slope of a graph >> **Z.12** Write linear functions: word problems >>
5.2: Writing Linear Equations from a Table	**Z.10** Write a linear function from a table >> *See also:* **I.2** Write equations for proportional relationships from tables >>
5.3: Linear Relationships and Bivariate Data	

Module 6

Functions

Textbook section	IXL skills	
6.1: Identifying and Representing Functions	**Z.1**	Identify functions >>
6.2: Describing Functions	**Y.6**	Graph a line from an equation in slope-intercept form >>
	Z.7	Complete a table for a linear function >>
6.3: Comparing Functions	**Z.9**	Interpret the graph of a linear function: word problems >>
6.4: Analyzing Graphs		

Module 7

Solving Linear Equations

Textbook section	IXL skills
7.1: Equations with the Variables on Both Sides	**W.3** Model and solve equations using algebra tiles >> **W.10** Solve equations with variables on both sides >> **W.13** Solve equations: word problems >> *See also:* **W.9** Solve equations involving like terms >> **W.11** Solve equations: mixed review >>
7.2: Equations with Rational Numbers	
7.3: Equations with Distributive Property	
7.4: Equations with Many Solutions or No Solution	**W.14** Find the number of solutions >>

Module 8

Solving Systems of Linear Equations

Textbook section	IXL skills
8.1: 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 >> *See also:* **AA.1** Is (x, y) a solution to the system of equations? >>
8.2: Solving Systems by Substitution	**AA.8** Solve a system of equations using substitution >> **AA.9** Solve a system of equations using substitution: word problems >>
8.3: Solving Systems by Elimination	**AA.10** Solve a system of equations using elimination >> **AA.11** Solve a system of equations using elimination: word problems >>
8.4: Solving Systems by Elimination with Multiplication	
8.5: Solving Special Systems	**AA.5** Find the number of solutions to a system of equations >> *See also:* **AA.6** Classify a system of equations by graphing >> **AA.7** Classify a system of equations >>

Module 9

Transformation and Congruence

Textbook section	IXL skills	
9.1: Properties of Translations	**P.3**	Translations: graph the image >>
	P.4	Translations: find the coordinates >>
9.2: Properties of Reflection	**P.5**	Reflections: graph the image >>
	P.6	Reflections: find the coordinates >>
9.3: Properties of Rotation	**P.7**	Rotations: graph the image >>
	P.8	Rotations: find the coordinates >>
9.4: Algebraic Representations of Transformations		
9.5: Congruent Figures		

Module 10

Transformation and Similarity

Textbook section	IXL skills	
10.1: Properties of Dilations	**Q.4**	Dilations: scale factor and classification >>
10.2: Algebraic Representations of Dilations	**Q.2**	Dilations: graph the image >>
	Q.3	Dilations: find the coordinates >>
10.3: Similar Figures		

Module 11

Angle Relationships in Parallel Lines and Triangles

Textbook section	IXL skills
11.1: Parallel Lines Cut by a Transversal	**O.12** Transversal of parallel lines >>
11.2: Angle Theorems for Triangles	**O.8** Exterior Angle Theorem >> *See also:* **O.6** Find missing angles in triangles >>
11.3: Angle-Angle Similarity	

Module 12

The Pythagorean Theorem

Textbook section	IXL skills	
12.1: 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 >>
	See also:	
	R.3	Pythagorean theorem: find the perimeter >>
12.2: Converse of the Pythagorean Theorem	**R.5**	Converse of the Pythagorean theorem: is it a right triangle? >>
12.3: Distance Between Two Points	**N.4**	Find the distance between two points >>

Module 13

Volume

Textbook section	IXL skills	
13.1: Volume of Cylinders		
13.2: Volume of Cones	**T.9**	Volume of cylinders >>
13.3: Volume of Spheres	**T.13**	Volume of spheres >>

Module 14

Scatter Plots

Textbook section	IXL skills
14.1: Scatter Plots and Association	**CC.14** Scatter plots >>
14.2: Trend Lines and Predictions	

Module 15

Two-Way Table

Textbook section	IXL skills
15.1: Two-Way Frequency Tables	
15.2: Two-Way Relative Frequency Tables	