IXL Skill Alignment

Alg 1 alignment for Eureka Math Common Core Curriculum

Module 1

Relationships Between Quantities and Reasoning with Equations and Their Graphs

Textbook section	IXL skills	
Topic A: Introduction to Functions Studied this Year - Graphing Stories	**Q.11**	Interpret the graph of a function: word problems >>
Topic B: The Structure of Expressions	**Z.1**	Polynomial vocabulary >>
	Z.4	Add and subtract polynomials >>
	Z.6	Multiply a polynomial by a monomial >>
	Z.8	Multiply two binomials >>
	Z.9	Multiply two binomials: special cases >>
	Z.10	Multiply polynomials >>
	See also:	
	H.2	Distributive property >>
	H.3	Simplify variable expressions using properties >>
	I.3	Identify equivalent linear expressions >>
	V.6	Multiplication and division with exponents >>
Topic C: Solving Equations and Inequalities	**I.8**	Rearrange multi-variable equations >>
	J.5	Solve advanced linear equations >>
	J.6	Solve equations with variables on both sides >>
	J.7	Solve equations: complete the solution >>
	K.6	Solve one-step linear inequalities >>
	K.7	Graph solutions to one-step linear inequalities >>
	K.8	Solve two-step linear inequalities >>
	K.9	Graph solutions to two-step linear inequalities >>
	K.10	Solve advanced linear inequalities >>
	K.11	Graph solutions to advanced linear inequalities >>
	K.12	Graph compound inequalities >>

Topic D: Creating Equations to Solve Problems

Module 2

Descriptive Statistics

Textbook section	IXL skills	
Topic A: Shapes and Centers of Distributions	**N.5**	Interpret box-and-whisker plots >>
Topic B: Describing Variability and Comparing Distributions	**KK.7**	Variance and standard deviation >>
	See also:	
	KK.3	Quartiles >>
	KK.4	Identify an outlier >>
Topic C: Categorical Data on Two Variables		
Topic D: Numerical Data on Two Variables	**KK.10**	Match correlation coefficients to scatter plots >>
	KK.11	Calculate correlation coefficients >>
	KK.13	Find the equation of a regression line >>
	KK.14	Interpret regression lines >>
	KK.15	Analyze a regression line of a data set >>
	See also:	
	KK.8	Interpret a scatter plot >>

Module 3
Linear and Exponential Functions

Textbook section	IXL skills	
Topic A: Linear and Exponential Sequences	**P.1**	Identify arithmetic and geometric sequences >>
	P.4	Evaluate variable expressions for number sequences >>
	P.5	Write variable expressions for arithmetic sequences >>
	X.5	Exponential growth and decay: word problems >>
	See also:	
	P.2	Arithmetic sequences >>
	P.3	Geometric sequences >>
Topic B: Functions and Their Graphs	**Q.1**	Relations: convert between tables, graphs, mappings, and lists of points >>
	Q.7	Evaluate a function >>
	Q.8	Evaluate a function: plug in an expression >>
	Q.10	Complete a function table from an equation >>
	Q.11	Interpret the graph of a function: word problems >>
	See also:	
	Q.2	Domain and range of relations >>
	Q.4	Identify functions >>
Topic C: Transformations of Functions	**DD.1**	Complete a function table: absolute value functions >>
	DD.2	Graph an absolute value function >>
	DD.5	Transformations of absolute value functions >>
	See also:	
	DD.3	Domain and range of absolute value functions: graphs >>

Topic D: Using Functions and Graphs to Solve
Problems

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Module 4
Polynomial and Quadratic Expressions, Equations, and Functions

Textbook section	IXL skills	
Topic A: Quadratic Expressions, Equations, Functions, and Their Connection to Rectangles	**AA.2**	Factor out a monomial >>
	AA.4	Factor quadratics with leading coefficient 1 >>
	AA.5	Factor quadratics with other leading coefficients >>
	AA.6	Factor quadratics: special cases >>
	BB.6	Solve a quadratic equation using the zero product property >>
	BB.7	Solve a quadratic equation by factoring >>
	See also:	
	AA.1	GCF of monomials >>
	BB.5	Solve a quadratic equation using square roots >>
	BB.12	Match quadratic functions and graphs >>
Topic B: Using Different Forms for Quadratic Functions	**BB.1**	Characteristics of quadratic functions >>
	BB.4	Graph quadratic functions in vertex form >>
	BB.9	Solve a quadratic equation by completing the square >>
	BB.10	Solve a quadratic equation using the quadratic formula >>
	BB.11	Using the discriminant >>
	See also:	
	BB.8	Complete the square >>
Topic C: Function Transformations and Modeling	**BB.3**	Transformations of quadratic functions >>
	DD.5	Transformations of absolute value functions >>
	See also:	
	S.25	Transformations of linear functions >>
	FF.2	Domain and range of radical functions: graphs >>

Module 5
A Synthesis of Modeling with Equations and Functions

Textbook section	IXL skills	
Topic A: Elements of Modeling	**S.10**	Slope-intercept form: write an equation from a word problem >>
	S.12	Write linear functions to solve word problems >>
	CC.2	Identify linear, quadratic, and exponential functions from tables >>
	See also:	
	CC.1	Identify linear, quadratic, and exponential functions from graphs >>
Topic B: Completing the Modeling Cycle	**X.5**	Exponential growth and decay: word problems >>
	CC.3	Write linear, quadratic, and exponential functions >>
	KK.13	Find the equation of a regression line >>
	KK.14	Interpret regression lines >>
	KK.15	Analyze a regression line of a data set >>