

IXL Skill Alignment

Alg 1 alignment for Pearson Texas

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Solving Equations and Inequalities

Textbook section	IXL ski	lls
Lesson 1-1: Solving Multi-Step Equations	J.3	Solve one-step linear equations >>
	J.4	Solve two-step linear equations >>
	J.5	Solve advanced linear equations >>
	J.10	Solve linear equations: word problems >>
Lesson 1-2: Solving Equations with Variables on Both Sides	J.6	Solve equations with variables on both sides >>
	J.7	Solve equations: complete the solution >>
	J.8	Find the number of solutions >>
	J.11	Solve linear equations: mixed review >>
Lesson 1-3: Literal Equations	1.8	Rearrange multi-variable equations >>
Lesson 1-4: Solving Proportions	C.5	Solve proportions >>
	C.6	Solve proportions: word problems >>
Lesson 1-5: Proportions and Similar Figures	C.7	Scale drawings: word problems >>
Lesson 1-6: Solving Multi-Step Inequalities	K.4	Solve one-step linear inequalities: addition and subtraction >>
	K.5	Solve one-step linear inequalities: multiplication and division >>
	K.6	Solve one-step linear inequalities >>
	K.8	Solve two-step linear inequalities >>
	K.10	Solve advanced linear inequalities >>
Lesson 1-7: Compound Inequalities	K.12	Graph compound inequalities >>
	K.13	Write compound inequalities from graphs >>
	K.14	Solve compound inequalities >>
	K.15	Graph solutions to compound inequalities >>



An Introduction to Functions

Textbook section	IXL skills	
Lesson 2-1: Using Graphs to Relate Two Quantites		
Lesson 2-2: Patterns and Linear Functions	Q.3	Identify independent and dependent variables >>
Lesson 2-3: Patterns and Nonlinear Functions	Q.9	Complete a function table from a graph >>
	Q.11	Interpret the graph of a function: word problems >>
	S.1	Identify linear functions >>
Lesson 2-4: Graphing a Function Rule	Q.10	Complete a function table from an equation >>
	S.13	Complete a table and graph a linear function >>
Lesson 2-5: Writing a Function Rule	S.12	Write linear functions to solve word problems >>
Lesson 2-6: Formalizing Relations and Functions	Q.1	Relations: convert between tables, graphs, mappings, and lists of points >>
	Q.2	Domain and range of relations >>
	Q.4	Identify functions >>
	Q.5	Identify functions: vertical line test >>
Lesson 2-7: Using Function Notation	Q.7	Evaluate a function >>
	Q.8	Evaluate a function: plug in an expression >>



Linear Functions

Textbook section	IXL skills	
Lesson 3-1: Rate of Change and Slope	S.2	Find the slope of a graph >>
	S.3	Find the slope from two points >>
Lesson 3-2: Direct Variation	R.1	Identify proportional relationships >>
	R.2	Find the constant of variation >>
	R.3	Graph a proportional relationship >>
	R.4	Write direct variation equations >>
	R.5	Write and solve direct variation equations >>
Lesson 3-3: Slope-Intercept Form	S.5	Slope-intercept form: find the slope and y-intercept >>
	S.6	Slope-intercept form: graph an equation >>
	S.7	Slope-intercept form: write an equation from a graph >>
	S.8	Slope-intercept form: write an equation >>
	5.9	Slope-intercept form: write an equation from a table >>
	5.10	Slope-intercept form: write an equation from a word problem >>
Lesson 3-4: Point-Slope Form	5.20	Point-slope form: graph an equation >>
	S.21	Point-slope form: write an equation >>
	5.22	Point-slope form: write an equation from a graph >>
Lesson 3-5: Standard Form	S.15	Write equations in standard form >>
	S.16	Standard form: find x- and y-intercepts >>
	S.17	Standard form: graph an equation >>
	S.18	Equations of horizontal and vertical lines >>
	S.19	Graph a horizontal or vertical line >>



Lesson 3-6: Parallel and Perpendicular Lines	S.23	Slopes of parallel and perpendicular lines >>
	S.24	Write an equation for a parallel or perpendicular line >>
Lesson 3-7: Transformations of Linear Functions	S.25	Transformations of linear functions >>
Lesson 3-8: Scatter Plots and Trend Lines	KK.8	Interpret a scatter plot >>
	KK.10	Match correlation coefficients to scatter plots >>
	KK.11	Calculate correlation coefficients >>
	KK.12	Scatter plots: line of best fit >>
	KK.13	Find the equation of a regression line >>
	KK.14	Interpret regression lines >>



Systems of Equations and Inequalities

Textbook section	IXL skil	lls
Lesson 4-1: Solving Systems by Graphing	U.2	Solve a system of equations by graphing >>
	U.3	Solve a system of equations by graphing: word problems >>
	U.4	Find the number of solutions to a system of equations by graphing >>
Lesson 4-2: Solving Systems Using Substitution	U.8	Solve a system of equations using substitution >>
	U.9	Solve a system of equations using substitution: word problems >>
Lesson 4-3: Solving Systems Using Elimination	U.5	Find the number of solutions to a system of equations >>
	U.10	Solve a system of equations using elimination >>
	U.11	Solve a system of equations using elimination: word problems >>
Lesson 4-4: Applications of Linear Systems	U.14	Solve a system of equations using any method >>
	U.15	Solve a system of equations using any method: word problems >>
Lesson 4-5: Linear Inequalities	T.1	Does (x, y) satisfy the inequality? >>
	T.2	Linear inequalities: solve for y >>
	T.3	Graph a two-variable linear inequality >>
	T.4	Linear inequalities: word problems >>
Lesson 4-6: Systems of Linear Inequalities	T.5	Is (x, y) a solution to the system of inequalities? >>
	Т.6	Solve systems of linear inequalities by graphing >>



Exponents and Radicals

Textbook section	IXL skil	lls
Lesson 5-1: Zero and Negative Exponents	V.1	Exponents with integer bases >>
	V.2	Exponents with decimal and fractional bases >>
	V.3	Negative exponents >>
Lesson 5-2: Multiplying Powers with the Same Base	V.4	Multiplication with exponents >>
Lesson 5-3: More Multiplication Properties of Exponents	V.7	Power rule >>
Lesson 5-4: Division Properties of Exponents	V.5	Division with exponents >>
	V.6	Multiplication and division with exponents >>
Lesson 5-5: Rational Exponents and Radicals	A.6	Square roots >>
	A.7	Cube roots >>
	V.10	Evaluate integers raised to rational exponents >>
Lesson 5-6: Simplifying Radicals	EE.1	Simplify radical expressions >>
	EE.2	Simplify radical expressions with variables >>
	EE.3	Simplify radical expressions involving fractions >>
	EE.4	Multiply radical expressions >>
Lesson 5-7: The Pythagorean Theorem	F.14	Pythagorean theorem >>
	F.15	Pythagorean theorem: word problems >>
	F.16	Converse of the Pythagorean theorem: is it a right triangle? >>



Sequences

Textbook section	IXL ski	IXL skills	
Lesson 6-1: Arithmetic and Geometric Sequences	P.1	Identify arithmetic and geometric sequences >>	
	P.2	Arithmetic sequences >>	
	P.3	Geometric sequences >>	
	P.5	Write variable expressions for arithmetic sequences >>	
	P.6	Write variable expressions for geometric sequences >>	
Lesson 6-2: Arithmetic Sequences in Recursive Form			
Lesson 6-3: Geometric Sequences in Recursive Form			



Polynomials and Factoring

Textbook section	IXL skills	
Lesson 7-1: Adding and Subtracting Polynomials	Z.1 Z.4	Polynomial vocabulary >> Add and subtract polynomials >>
Lesson 7-2: Multiplying and Factoring	Z.6 AA.1 AA.2	Multiply a polynomial by a monomial >> GCF of monomials >> Factor out a monomial >>
Lesson 7-3: Multiplying Binomials	Z.7 Z.8	Multiply two polynomials using algebra tiles >> Multiply two binomials >>
Lesson 7-4: Multiplying Special Cases	Z.9	Multiply two binomials: special cases >>
Lesson 7-5: Factoring x2 + bx + c	AA.4	Factor quadratics with leading coefficient 1 >>
Lesson 7-6: Factoring ax2 + bx + c	AA.3 AA.5	Factor quadratics using algebra tiles >> Factor quadratics with other leading coefficients >>
Lesson 7-7: Factoring Special Cases	AA.6	Factor quadratics: special cases >>
Lesson 7-8: Factor by Grouping	AA. 7	Factor by grouping >>
Lesson 7-9: Simplifying Rational Expressions	GG.3	Simplify rational expressions >>
Lesson 7-10: Dividing Polynomials	Y.3 GG.5	Divide monomials >> Divide polynomials >>



Quadratic Functions and Relations

Textbook section	IXL skills	
Lesson 8-1: Quadratic Graphs and their Properties		
Lesson 8-2: Quadratic Functions	BB.1	Characteristics of quadratic functions >>
	BB.2	Complete a function table: quadratic functions >>
	BB.12	Match quadratic functions and graphs >>
Lesson 8-3: Transformations of Quadratic Functions	BB.3	Transformations of quadratic functions >>
Lesson 8-4: Vertex Form of a Quadratic Function	BB.4	Graph quadratic functions in vertex form >>
Lesson 8-5: Solving Quadratic Equations	BB.5	Solve a quadratic equation using square roots >>
Lesson 8-6: Factoring to Solve Quadratic Equations	BB.6	Solve a quadratic equation using the zero product property >>
	BB.7	Solve a quadratic equation by factoring >>
Lesosn 8-7: Writing Quadratic Functions		
Lesson 8-8: Completing the Square	BB.8	Complete the square >>
	BB.9	Solve a quadratic equation by completing the square >>
Lesson 8-9: The Quadratic Formula and the Discriminant	BB.10	Solve a quadratic equation using the quadratic formula >>
	BB.11	Using the discriminant >>



Exponential Functions and Equations

Textbook section	IXL skills	
Lesson 9-1: Exponential Functions	X.1	Evaluate an exponential function >>
	X.2	Match exponential functions and graphs >>
Lesson 9-2: Exponential Growth and Decay	X.5	Exponential growth and decay: word problems >>
Lesson 9-3: Modeling Exponential Data		