



IXL Skill Alignment

Course 3 alignment for EdGems Math



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Unit 1

Equations

Textbook section	IXL skills
1.1: Solving One and Two-step Equations	<ol style="list-style-type: none"> Solve one-step equations 5J4 Solve two-step equations JXD Solve one-step and two-step equations: word problems HCP <p><i>Also consider</i></p> <ul style="list-style-type: none"> Which x satisfies an equation? BVQ Write an equation from words F6R
1.2: Solving Multi-Step Equations	<ol style="list-style-type: none"> Solve multi-step equations 55K Solve equations involving like terms Q2B Solve equations with variables on both sides ZYL <p><i>Also consider</i></p> <ul style="list-style-type: none"> Solve equations: complete the solution PGH
1.3: Solutions to Linear Equations	<ol style="list-style-type: none"> Find the number of solutions XDE Create equations with no solutions or infinitely many solutions 7TY
1.4: Square Roots & Cube Roots	<ol style="list-style-type: none"> Square roots of perfect squares 9RS Cube roots of positive perfect cubes RYG Estimate positive square roots XWJ
1.5: Solving Equations with Exponents	<ol style="list-style-type: none"> Solve equations using square roots 9WX Solve equations using cube roots TQ5 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Positive and negative square roots 8TF
1.6: Simplifying Roots	<ol style="list-style-type: none"> Prime factorization YVA Simplify square roots WFY

Unit 2

The Pythagorean Theorem

Textbook section	IXL skills
2.1: The Pythagorean Theorem	<ol style="list-style-type: none">1. Pythagorean theorem: find the length of the hypotenuse 7ZL2. Pythagorean theorem: find the missing leg length Y9C3. Converse of the Pythagorean theorem: is it a right triangle? EQZ
2.2: Applying the Pythagorean Theorem	<ol style="list-style-type: none">1. Pythagorean theorem: word problems 87U
2.3: Distance on the Coordinate Plane	<ol style="list-style-type: none">1. Find the distance between two points ZBP <p><i>Also consider</i></p> <ul style="list-style-type: none">• Pythagorean theorem: find the perimeter VGE

Unit 3

Proportional Relationships and Slope

Textbook section	IXL skills
3.1: Understanding Functions	<ol style="list-style-type: none">1. Domain and range of functions JZD2. Identify functions ELJ3. Identify functions: graphs AEB <p><i>Also consider</i></p> <ul style="list-style-type: none">• Complete a table for a linear function D9B
3.2: Proportional Relationships	<ol style="list-style-type: none">1. Identify proportional relationships Z642. Write equations for proportional relationships from tables S693. Write equations for proportional relationships from graphs G7N <p><i>Also consider</i></p> <ul style="list-style-type: none">• Interpret graphs of proportional relationships Q96
3.3: Calculating Slope from Graphs	<ol style="list-style-type: none">1. Find the slope of a graph D7M2. Graph a line using slope FSV
3.4: The Slope Formula	<ol style="list-style-type: none">1. Find the slope from two points ZAC2. Constant rate of change ZPF <p><i>Also consider</i></p> <ul style="list-style-type: none">• Find a missing coordinate using slope R5P

Unit 4

Functions

Textbook section	IXL skills
4.1: Graphing Using Slope Intercept Form	<ol style="list-style-type: none"> Slope-intercept form: find the slope and y-intercept U55 Graph a line from an equation in slope-intercept form W5E <p><i>Also consider</i></p> <ul style="list-style-type: none"> Write linear functions: word problems YK6 Evaluate a linear function: word problems DA6
4.2: Writing Linear Equations for Graphs	<ol style="list-style-type: none"> Write a linear equation from a graph WHM Interpret points on the graph of a linear function 9E8
4.3: Writing Linear Equations from Key Information	<ol style="list-style-type: none"> Write a linear equation from a slope and y-intercept WHP Write a linear equation from a slope and a point VKP Write a linear equation from two points 2R9 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Write a linear function from a table UYY
4.4: Linear Equations in Other Forms	<ol style="list-style-type: none"> Convert a linear equation to slope-intercept form 62G Graph a line from an equation in standard form 7MZ <p><i>Also consider</i></p> <ul style="list-style-type: none"> Graph a line from an equation in point-slope form RZZ
4.5: Introduction to Non-Linear Functions	<ol style="list-style-type: none"> Identify linear and nonlinear functions: graphs and equations XB8 Identify linear and nonlinear functions: tables VGS
4.6: Interpreting Graphs of Functions	

Unit 5

Systems of Equations

Textbook section	IXL skills
5.1: Parallel, Intersecting, or the Same Line	<ol style="list-style-type: none"> 1. Find the number of solutions to a system of equations by graphing AGZ 2. Find the number of solutions to a system of equations UYM
5.2: Solving Systems by Graphing	<ol style="list-style-type: none"> 1. Is (x, y) a solution to the system of equations? N46 2. Solve a system of equations by graphing WV5 3. Solve a system of equations by graphing: word problems W9J
5.3: Solving Systems by Substitution	<ol style="list-style-type: none"> 1. Solve a system of equations using substitution J8X 2. Solve a system of equations using substitution: word problems 9M8
5.4: Solving Systems Using Elimination	<ol style="list-style-type: none"> 1. Solve a system of equations using elimination ZQV 2. Solve a system of equations using elimination: word problems Z97
5.5: Applications of Systems of Equations	<ol style="list-style-type: none"> 1. Solve a system of equations using any method: word problems VHE <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Solve a system of equations using any method AM5
5.6: Converting Repeating Decimals to Fractions	<ol style="list-style-type: none"> 1. Write a repeating decimal as a fraction WD6

Unit 6

Angle Relationships

Textbook section	IXL skills
6.1: Alternate Exterior and Interior Angles	<ol style="list-style-type: none">1. Transversals of parallel lines: name angle pairs TNU2. Find angle measures: supplementary, vertical, and alternate interior angles N8J
6.2: Corresponding and Same-Side Interior Angles	<ol style="list-style-type: none">1. Identify corresponding and consecutive interior angles JYX2. Transversals of parallel lines: find angle measures V99
6.3: Angle Sum of a Triangle	<ol style="list-style-type: none">1. Classify triangles J9M2. Find missing angles in triangles JFJ3. Triangle Angle-Sum Theorem 6Q6
6.4: Congruent and Similar Triangles	<ol style="list-style-type: none">1. Side lengths and angle measures of similar triangles XED2. Identify similar triangles 6PD
6.5: Angle Relationships	<ol style="list-style-type: none">1. Exterior Angle Theorem FMP2. Find missing side lengths in proportional triangles P5W

Unit 7

Transformations

Textbook section	IXL skills
7.1: Reflections	<ol style="list-style-type: none"> Reflections over the x- and y-axes: graph the image 74Z Reflections over the x- and y-axes: find the coordinates 5UM
7.2: Translations	<ol style="list-style-type: none"> Translations: graph the image XUS Translations: find the coordinates RUP Translations: write the rule 6XB <p><i>Also consider</i></p> <ul style="list-style-type: none"> Classify rational numbers using a diagram 64K
7.3: Rotations	<ol style="list-style-type: none"> Rotations: graph the image AC9 Rotations: find the coordinates HHS <p><i>Also consider</i></p> <ul style="list-style-type: none"> Identify reflections, rotations, and translations UYL
7.4: Dilations	<ol style="list-style-type: none"> Dilations: graph the image 9T4 Dilations: find the coordinates UV9 Dilations: scale factor and classification 8NK <p><i>Also consider</i></p> <ul style="list-style-type: none"> Perimeter and area: changes in scale URF
7.5: Composition of Transformations	<ol style="list-style-type: none"> Sequences of congruence transformations: graph the image C53 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Describe a sequence of transformations XPK

Unit 8

Exponent Properties

Textbook section	IXL skills
8.1: Multiplication Property of Exponents	<ol style="list-style-type: none"> 1. Multiplication with exponents UCX 2. Power rule with exponents 7V9
8.2: Division Property of Exponents	<ol style="list-style-type: none"> 1. Understanding negative exponents 7ZJ 2. Division with exponents W7U 3. Identify equivalent expressions involving exponents II QDM <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify equivalent expressions involving exponents I VLM • Evaluate negative exponents WGS • Evaluate expressions using properties of exponents UTY
8.3: Scientific Notation	<ol style="list-style-type: none"> 1. Convert between standard and scientific notation H8A 2. Compare numbers written in scientific notation RHT
8.4: Applications of Scientific Notation	<ol style="list-style-type: none"> 1. Multiply numbers written in scientific notation YZU 2. Divide numbers written in scientific notation SGT 3. Add and subtract numbers written in scientific notation HUR

Unit 9

Volume

Textbook section	IXL skills
9.1: Volume of Cylinders	1. Volume of cylinders 9F3
9.2: Volume of Cones	1. Volume of cones Y9R
9.3: Volume of Spheres	1. Volume of spheres QX7

Unit 10

Bivariate Data

Textbook section	IXL skills
10.1: Scatter Plots and Associations	<ol style="list-style-type: none">1. Create scatter plots AVL2. Identify trends with scatter plots GZE3. Outliers in scatter plots RP8
10.2: Lines of Best Fit	<ol style="list-style-type: none">1. Make predictions with scatter plots CM7<ul style="list-style-type: none">• <i>Coming soon:</i> Identify lines of best fit
10.3: Writing Equations for Lines of Best Fit	<ol style="list-style-type: none">1. Scatter plots: line of best fit ZQ6
10.4: Bivariate Data and Frequency Tables	<ol style="list-style-type: none">1. Find probabilities using two-way frequency tables CRV