



IXL Skill Alignment

8th grade alignment for enVisionMATH 2.0 Common Core Edition

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Topic 1

Real Numbers

Textbook section	IXL skills
Lesson 1-1: Rational Numbers as Decimals	1. Convert between repeating decimals and fractions AH5
Lesson 1-2: Understand Irrational Numbers	1. Identify rational and irrational numbers NV6
Lesson 1-3: Compare and Order Real Numbers	1. Compare rational numbers MUK 2. Put rational numbers in order QP5 3. Estimate positive and negative square roots 96T
Lesson 1-4: Evaluate Square Roots and Cube Roots	1. Square roots of perfect squares 9RS 2. Cube roots of perfect cubes RYG
Lesson 1-5: Solve Equations Using Square Roots and Cube Roots	1. Positive and negative square roots 8TF 2. Solve equations using square roots NNA 3. Solve equations using cube roots TQ5
Lesson 1-6: Use Properties of Integer Exponents	1. Multiplication with exponents EQY
Lesson 1-7: More Properties of Exponents	1. Understanding negative exponents YBB 2. Evaluate negative exponents WGS 3. Division with exponents M2C 4. Multiplication and division with exponents L2J 5. Power rule AEQ 6. Evaluate expressions using properties of exponents UTY 7. Identify equivalent expressions involving exponents VLM
Lesson 1-8: Use Powers of 10 to Estimate Quantities	1. Compare numbers written in scientific notation RHT
Lesson 1-9: Understand Scientific Notation	1. Convert between standard and scientific notation H8A
Lesson 1-10: Operations with Numbers in Scientific Notation	1. Multiply numbers written in scientific notation YZU 2. Divide numbers written in scientific notation SGT

Topic 2

Analyze and Solve Linear Equations

Textbook section	IXL skills
Lesson 2-1: Combine Like Terms to Solve Equations	<ol style="list-style-type: none"> 1. Write and solve equations that represent diagrams G6N 2. Solve equations involving like terms Q2B 3. Solve equations: word problems HCP
Lesson 2-2: Solve Equations with Variables on Both Sides	<ol style="list-style-type: none"> 1. Solve equations with variables on both sides ZYL
Lesson 2-3: Solve Multistep Equations	<ol style="list-style-type: none"> 1. Solve multi-step equations 55K 2. Solve equations: mixed review HZZ 3. Solve equations: complete the solution PGH
Lesson 2-4: Equations with No Solutions or Infinitely Many Solutions	<ol style="list-style-type: none"> 1. Find the number of solutions XDE 2. Create equations with no solutions or infinitely many solutions 7TY
Lesson 2-5: Compare Proportional Relationships	<ol style="list-style-type: none"> 1. Unit rates 59J
Lesson 2-6: Connect Proportional Relationships and Slope	<ol style="list-style-type: none"> 1. Graph proportional relationships MQD 2. Find the slope of a graph D7M 3. Find the slope from two points ZAC
Lesson 2-7: Analyze Linear Equations: $y = mx$	<ol style="list-style-type: none"> 1. Find the constant of proportionality from a graph YMH 2. Write equations for proportional relationships from graphs G7N
Lesson 2-8: Understand the y-intercept of a Line	
Lesson 2-9: Analyze Linear Equations: $y = mx + b$	<ol style="list-style-type: none"> 1. Graph a line using slope F5V 2. Graph a line from an equation in slope-intercept form W5E 3. Write a linear equation from a slope and y-intercept WHP 4. Write a linear equation from a graph WHM

Topic 3

Use Functions to Model Relationships

Textbook section	IXL skills
Lesson 3-1: Understand Relations and Functions	1. Identify functions ELJ
Lesson 3-2: Connect Representations of Functions	1. Complete a table for a linear function D9B 2. Complete a table and graph a linear function DC2
Lesson 3-3: Compare Linear and Nonlinear Functions	1. Constant rate of change ZPF 2. Compare linear functions: tables, graphs, and equations N7D 3. Identify linear and nonlinear functions: graphs and equations XB8
Lesson 3-4: Construct Functions to Model Linear Relationships	1. Write a linear equation from a graph WHM 2. Write a linear equation from two points ZR9 3. Write a linear function from a table UYJ 4. Write linear functions: word problems YK6
Lesson 3-5: Intervals of Increase and Decrease	
Lesson 3-6: Sketch Functions from Verbal Descriptions	

Topic 4

Investigate Bivariate Data

Textbook section	IXL skills
Lesson 4-1: Construct and Interpret Scatter Plots	<ol style="list-style-type: none">1. Identify trends with scatter plots <small>GZE</small>2. Outliers in scatter plots <small>RP8</small>
Lesson 4-2: Analyze Linear Associations	
Lesson 4-3: Use Linear Models to Make Predictions	<ol style="list-style-type: none">1. Scatter plots: line of best fit <small>ZQ6</small>
Lesson 4-4: Interpret Two-Way Frequency Tables	<ol style="list-style-type: none">1. Create frequency charts <small>LT2</small>
Lesson 4-5: Interpret Two-Way Relative Frequency Tables	

Topic 5

Analyze and Solve Systems of Linear Equations

Textbook section	IXL skills
Lesson 5-1: Estimate Solutions by Inspection	<ol style="list-style-type: none">1. Find the number of solutions to a system of equations UYM
Lesson 5-2: Solve Systems by Graphing	<ol style="list-style-type: none">1. Solve a system of equations by graphing WV52. Solve a system of equations by graphing: word problems W9J3. Find the number of solutions to a system of equations by graphing AGZ
Lesson 5-3: Solve Systems by Substitution	<ol style="list-style-type: none">1. Solve a system of equations using substitution J8X2. Solve a system of equations using substitution: word problems 9M8
Lesson 5-4: Solve Systems by Elimination	<ol style="list-style-type: none">1. Solve a system of equations using elimination ZQV2. Solve a system of equations using elimination: word problems Z97

Topic 6

Congruence and Similarity

Textbook section	IXL skills
Lesson 6-1: Analyze Translations	<ol style="list-style-type: none"> 1. Translations: graph the image XU5 2. Translations: find the coordinates RUP
Lesson 6-2: Analyze Reflections	<ol style="list-style-type: none"> 1. Reflections: graph the image NBM 2. Reflections: find the coordinates KUX
Lesson 6-3: Analyze Rotations	<ol style="list-style-type: none"> 1. Rotations: graph the image AC9 2. Rotations: find the coordinates HHS
Lesson 6-4: Compose Transformations	
Lesson 6-5: Understand Congruent Figures	
Lesson 6-6: Describe Dilations	<ol style="list-style-type: none"> 1. Dilations: graph the image 9T4 2. Dilations: find the coordinates UV9 3. Dilations: scale factor and classification 8NK
Lesson 6-7: Understand Similar Figures	<ol style="list-style-type: none"> 1. Similar and congruent figures U85
Lesson 6-8: Angles, Lines, and Transversals	<ol style="list-style-type: none"> 1. Identify complementary, supplementary, vertical, adjacent, and congruent angles HGV 2. Find measures of complementary, supplementary, vertical, and adjacent angles R2B 3. Transversals of parallel lines: find angle measures V99
Lesson 6-9: Interior and Exterior Angles of Triangles	<ol style="list-style-type: none"> 1. Find missing angles in triangles JFJ 2. Exterior Angle Theorem FMP
Lesson 6-10: Angle-Angle Triangle Similarity	

Topic 7

Understand and Apply the Pythagorean Theorem

Textbook section	IXL skills
Lesson 7-1: Understand 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 Y9C
Lesson 7-2: Understand the Converse of the Pythagorean Theorem	<ol style="list-style-type: none">1. Converse of the Pythagorean theorem: is it a right triangle? EQZ
Lesson 7-3: Apply the Pythagorean Theorem to Solve Problems	<ol style="list-style-type: none">1. Pythagorean theorem: word problems 87U
Lesson 7-4: Find Distance in the Coordinate Plane	<ol style="list-style-type: none">1. Find the distance between two points ZBP

Topic 8

Solve Problems Involving Surface Area and Volume

Textbook section	IXL skills
Lesson 8-1: Find Surface Area of Three Dimensional Figures	<ol style="list-style-type: none">1. Surface area of cylinders FGU2. Surface area of cones 5E63. Surface area of spheres NJW
Lesson 8-2: Find Volume of Cylinders	<ol style="list-style-type: none">1. Volume of cylinders 9F3
Lesson 8-3: Find Volume of Cones	<ol style="list-style-type: none">1. Volume of cones YYR
Lesson 8-4: Find Volume of Spheres	<ol style="list-style-type: none">1. Volume of spheres QX7