



# IXL Skill Alignment

Integrated 1 alignment for Carnegie Integrated Math



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# Module 1

## Searching for Patterns

### Topic 1: Quantities and Relationships

Textbook section	IXL skills
<b>Lesson 1.1:</b> A Picture is Worth a Thousand Words	1. Identify independent and dependent variables N55
<b>Lesson 1.2:</b> A Sort of Sorts	1. Coordinate plane review H6E
<b>Lesson 1.3:</b> G of X	1. Domain and range of relations 2CG 2. Identify functions VLL 3. Identify functions: vertical line test HLX 4. Find values using function graphs QCG 5. Evaluate a function: plug in an expression VNZ
<b>Lesson 1.4:</b> Function Families for 800, Alex	1. Identify linear, quadratic, and exponential functions from graphs DHB

### Topic 2: Sequences

Textbook section	IXL skills
<b>Lesson 2.1:</b> Is there a Pattern Here?	
<b>Lesson 2.2:</b> The Password is: Operations	1. Identify arithmetic and geometric sequences X76 2. Arithmetic sequences ALG 3. Geometric sequences HLJ
<b>Lesson 2.3:</b> Did you mean: Recursion?	1. Evaluate recursive formulas for sequences 9YD 2. Write a formula for a recursive sequence KP9 3. Evaluate variable expressions for number sequences PMN 4. Write variable expressions for arithmetic sequences 5VF 5. Write variable expressions for geometric sequences XPC 6. Number sequences: mixed review FEL

**Lesson 2.4:** Searching for Patterns**Topic 3: Linear Regressions**

Textbook section	IXL skills
<b>Lesson 3.1:</b> Like a Glove	<ol style="list-style-type: none"><li>1. Scatter plots: line of best fit Y2S</li><li>2. Find the equation of a regression line WJC</li><li>3. Interpret regression lines SEQ</li></ol>
<b>Lesson 3.2:</b> Gotta Keep It Correlatin'	<ol style="list-style-type: none"><li>1. Interpret a scatter plot 8BS</li><li>2. Match correlation coefficients to scatter plots FQ7</li><li>3. Calculate correlation coefficients E8T</li></ol>
<b>Lesson 3.3:</b> The Residual Effect	
<b>Lesson 3.4:</b> To Fit or Not Fit? That Is The Question!	<ol style="list-style-type: none"><li>1. Analyze a regression line of a data set 8D8</li></ol>

# Module 2

## Exploring Constant Change

### Topic 1: Linear Functions

Textbook section	IXL skills
<b>Lesson 1.1:</b> Exploring Constant Change	<ol style="list-style-type: none"> <li>1. Find the slope of a graph E7D</li> <li>2. Rate of change: tables PLA</li> <li>3. Rate of change: graphs BNH</li> <li>4. Find the slope from two points MD5</li> <li>5. Identify linear functions from tables F5G</li> </ol>
<b>Lesson 1.2:</b> Fun With Functions, Linear Ones	<ol style="list-style-type: none"> <li>1. Slope-intercept form: graph an equation UWB</li> <li>2. Point-slope form: graph an equation F8H</li> <li>3. Point-slope form: write an equation PPE</li> <li>4. Point-slope form: write an equation from a graph LBX</li> <li>5. Identify linear functions from tables F5G</li> <li>6. Identify linear functions from graphs and equations VMQ</li> <li>7. Slope-intercept form: write an equation from a table SSE</li> <li>8. Slope-intercept form: write an equation from a word problem HWM</li> <li>9. Slope-intercept form: write an equation from a graph 9GW</li> <li>10. Write linear functions: word problems 9RQ</li> <li>11. Polynomial vocabulary MTT</li> <li>12. Find the slope from two points MD5</li> </ol>
<b>Lesson 1.3:</b> Move it!	<ol style="list-style-type: none"> <li>1. Transformations of linear functions C8G</li> </ol>
<b>Lesson 1.4:</b> Amirite?	<ol style="list-style-type: none"> <li>1. Slopes of parallel and perpendicular lines 6K2</li> <li>2. Equations of parallel and perpendicular lines VEB</li> </ol>

**Lesson 1.5:** Making a Connection

1. Compare linear functions: tables, graphs, and equations GD7
2. Compare linear functions: graphs and equations EA8

**Topic 2: Solving Linear Equations and Inequalities****Textbook section****IXL skills****Lesson 2.1:** Strike a Balance

1. Does  $x$  satisfy the equation? JPC
2. Which  $x$  satisfies an equation? YTT
3. Properties of equality H8Q
4. Identify equivalent equations XNQ
5. Find the number of solutions KBP
6. Solve equations: complete the solution EVP
7. Solve one-step linear equations TXJ
8. Solve two-step linear equations QAK
9. Solve advanced linear equations 28N
10. Solve equations with variables on both sides 7S7
11. Solve linear equations: word problems UFG
12. Solve linear equations: mixed review DN6

**Lesson 2.2:** It's Literally About Literal Equations

1. Rearrange multi-variable equations WSJ
2. Slope-intercept form: find the slope and y-intercept R5T
3. Write equations in standard form ESP

**Lesson 2.3:** Not All Statements Are Made Equal

1. Graph inequalities H68
2. Write inequalities from graphs SEK
3. Identify solutions to inequalities 5UE
4. Solve one-step linear inequalities: addition and subtraction RZV
5. Solve one-step linear inequalities: multiplication and division BRJ
6. Solve one-step linear inequalities EEX
7. Graph solutions to one-step linear inequalities E2Z
8. Solve two-step linear inequalities NPZ

9. Graph solutions to two-step linear inequalities XVM
10. Solve advanced linear inequalities 9K8
11. Graph solutions to advanced linear inequalities 5GC

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**Lesson 2.4:** Don't Confound Your Compounds

1. Graph compound inequalities BQX
  2. Write compound inequalities from graphs 6UV
  3. Solve compound inequalities GXA
  4. Graph solutions to compound inequalities LHX
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### Topic 3: Systems of Equations and Inequalities

**Textbook section**
**IXL skills**
**Lesson 3.1:** Double the Fun

1. Standard form: graph an equation U6U
  2. Standard form: find x- and y-intercepts 8SN
  3. Solve a system of equations by graphing TSS
  4. Find the number of solutions to a system of equations by graphing HJW
  5. Find the number of solutions to a system of equations ACN
  6. Solve a system of equations using substitution 8P9
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**Lesson 3.2:** The Elimination Round

1. Solve a system of equations using elimination A48
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**Lesson 3.3:** Throwing Shade

1. Does  $(x, y)$  satisfy the inequality? N9L
  2. Linear inequalities: solve for  $y$  UYU
  3. Graph a two-variable linear inequality HHP
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**Lesson 3.4:** Working with Constraints

1. Solve systems of linear inequalities by graphing SGH
  2. Is  $(x, y)$  a solution to the system of inequalities? VFC
  3. Linear inequalities: word problems ZAY
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**Lesson 3.5:** Exploring Constant Change

1. Solve systems of linear inequalities by graphing SGH
2. Linear inequalities: word problems ZAY

3. Solve a system of equations by graphing: word problems BVB
4. Solve a system of equations using substitution: word problems US9
5. Solve a system of equations using elimination: word problems NHR
6. Solve a system of equations using any method: word problems GDQ

### Lesson 3.6: Exploring Constant Change

## Topic 4: Shape on a Coordinate Plane

### Textbook section

### IXL skills

#### Lesson 4.1: The Shape of Things

1. Classify triangles TNN
2. Graph quadrilaterals M5F
3. Midpoint formula: find the midpoint UQE
4. Midpoint formula: find the endpoint MV6
5. Distance between two points AYD
6. Converse of the Pythagorean theorem: is it a right triangle? M68
7. Pythagorean theorem KKT
8. Classify quadrilaterals I 86L
9. Classify quadrilaterals II MVK

#### Lesson 4.2: Know It Inside Out

1. Perimeter 6NC
2. Area LLC
3. Area and perimeter: word problems EFA

#### Lesson 4.3: In All Shapes and Sizes

1. Area of trapezoids MP6
2. Area and perimeter in the coordinate plane I QWZ
3. Area and perimeter in the coordinate plane II MHQ
4. Area of parallelograms and triangles JTR
5. Area of compound figures KHG

# Module 3

## Investigating Growth and Decay

### Topic 1: Introduction to Exponential Functions

Textbook section	IXL skills
<b>Lesson 1.1:</b> Constant Ratios	1. Evaluate an exponential function D6H
<b>Lesson 1.2:</b> To the What?	1. Domain and range of exponential functions: graphs ANC 2. Domain and range of exponential functions: equations DZE 3. Exponents with integer bases EJ8
<b>Lesson 1.3:</b> My A,B,C,Ds	

### Topic 2: Using Exponential Equations

Textbook section	IXL skills
<b>Lesson 2.1:</b> Downtown and Uptown	1. Exponential growth and decay: word problems UKG 2. Simple interest YAT 3. Compound interest LSK
<b>Lesson 2.2:</b> The Horizontal Line and Powers	1. Match exponential functions and graphs 72J
<b>Lesson 2.3:</b> Tea and Carbon Dioxide	
<b>Lesson 2.4:</b> BAC is BAD NEWS	



# Module 4

## Describing Distributions

### Topic 1: One-Variable Statistics

Textbook section	IXL skills
<b>Lesson 1.1:</b> Represent!	<ol style="list-style-type: none"> <li>1. Interpret bar graphs, line graphs, and histograms B9A</li> <li>2. Create bar graphs, line graphs, and histograms EF6</li> <li>3. Box plots YE9</li> </ol>
<b>Lesson 1.2:</b> A Skewed Reality	<ol style="list-style-type: none"> <li>1. Variance and standard deviation HX5</li> <li>2. Mean, median, mode, and range MHB</li> <li>3. Calculate quartiles and interquartile range 8H9</li> <li>4. Identify an outlier 87L</li> <li>5. Identify an outlier and describe the effect of removing it XGC</li> </ol>
<b>Lesson 1.3:</b> Daring to Compare	

### Topic 2: Two-Variable Categorical Data

Textbook section	IXL skills
<b>Lesson 2.1:</b> It Takes Two	
<b>Lesson 2.2:</b> Relatively Speaking	
<b>Lesson 2.3:</b> On One Condition... or More	
<b>Lesson 2.4:</b> Data Jam	

# Module 5

## Analyzing Geometric Functions

### Topic 1: Constructions

Textbook section	IXL skills
<b>Lesson 1.1:</b> Construction Ahead	<ol style="list-style-type: none"> <li>1. Construct a square inscribed in a circle WEH</li> <li>2. Construct the midpoint or perpendicular bisector of a segment HDT</li> <li>3. Parts of a circle 4X2</li> </ol>
<b>Lesson 1.2:</b> Copycats	<ol style="list-style-type: none"> <li>1. Construct a regular hexagon inscribed in a circle MCM</li> </ol>
<b>Lesson 1.3:</b> A Regular Triangle	<ol style="list-style-type: none"> <li>1. Construct an equilateral triangle inscribed in a circle RBF</li> <li>2. Construct an equilateral triangle or regular hexagon USF</li> <li>3. Angle bisectors 68E</li> <li>4. Construct an angle bisector FHL</li> </ol>

### Topic 2: Rigid Motions on a Plane

Textbook section	IXL skills
<b>Lesson 2.1:</b> Put Your Input In, Take Your Output Out	<ol style="list-style-type: none"> <li>1. Construct parallel lines 6EB</li> <li>2. Lines, line segments, and rays XFC</li> </ol>
<b>Lesson 2.2:</b> Bow Thai	<ol style="list-style-type: none"> <li>1. Translations: graph the image 7AC</li> <li>2. Translations: write the rule 9PR</li> </ol>
<b>Lesson 2.3:</b> Staring Back at Me	<ol style="list-style-type: none"> <li>1. Perpendicular Bisector Theorem BKS</li> <li>2. Reflections: graph the image SM9</li> </ol>
<b>Lesson 2.4:</b> Turn Yourself Around	<ol style="list-style-type: none"> <li>1. Congruence transformations: mixed review XQ7</li> <li>2. Sequences of congruence transformations: graph the image WHW</li> <li>3. Classify congruence transformations CXT</li> <li>4. Rotations: graph the image 6SD</li> </ol>

5. Rotate polygons about a point XM7

**Lesson 2.5:** Okeechobee

1. Transformations that carry a polygon onto itself RJW
2. Rotational symmetry ERP
3. Draw lines of symmetry JU7
4. Count lines of symmetry M7U
5. Line symmetry WBX

### Topic 3: Congruence Through Transformations

**Textbook section**

**IXL skills**

**Lesson 3.1:** The Elements

1. Truth values JUU
2. Identify hypotheses and conclusions 7FW
3. Counterexamples 2GJ
4. Conditionals VU9
5. Truth tables 6FJ

**Lesson 3.2:** ASA, SAS, and SSS

1. Congruent line segments 6W6

**Lesson 3.3:** I Never Forget a Face

1. Proving triangles congruent by SSS and SAS VVZ
2. Proving triangles congruent by ASA and AAS 23Z
3. Proving triangles congruent by SSS, SAS, ASA, and AAS SZL
4. SSS and SAS Theorems 48Q
5. ASA and AAS Theorems N94
6. SSS, SAS, ASA, and AAS Theorems LER
7. SSS Theorem in the coordinate plane C5G
8. Proofs involving corresponding parts of congruent triangles AKL