



# IXL Skill Alignment

6th grade alignment for GO Math!



Use IXL's interactive skill plan to get up-to-date skill alignments, assign skills to your students, and track progress.

[www.ixl.com/math/skill-plans/go-math-2014-common-core-edition-6th-grade](http://www.ixl.com/math/skill-plans/go-math-2014-common-core-edition-6th-grade)

This document includes the IXL® skill alignments to Houghton Mifflin Harcourt's **GO Math!** curriculum. IXL provides skill alignments as a service to teachers, students, and parents. The skill alignments are provided by IXL and are not affiliated with, sponsored by, reviewed, approved or endorsed by Houghton Mifflin Harcourt or any other third party. IXL® and IXL Learning® are registered trademarks of IXL Learning, Inc. All other intellectual property rights (e.g., unregistered and registered trademarks and copyrights) are the property of their respective owners.

Visit [IXL.com](http://IXL.com) for more information

IXL Learning © 2023

# Module 1

## Integers

Textbook section	IXL skills
<b>1.1:</b> Identifying Integers and Their Opposites	1. Graph integers on horizontal and vertical number lines 36C
<b>1.2:</b> Comparing and Ordering Integers	1. Compare integers 4G6
<b>1.3:</b> Absolute Value	1. Absolute value 2YZ

# Module 2

## Greatest Common Factor

Textbook section	IXL skills
<b>2.1:</b> Greatest Common Factor	<ol style="list-style-type: none"><li>1. Identify factors BGJ</li><li>2. Greatest common factor AMB</li></ol>
<b>2.2:</b> Least Common Multiple	<ol style="list-style-type: none"><li>1. Least common multiple NGA</li><li>2. GCF and LCM: word problems ZB8</li></ol>

# Module 3

## Rational Numbers

Textbook section	IXL skills
<b>3.1:</b> Classifying Rational Numbers	
<b>3.2:</b> Identifying Opposites and Absolute Value of Rational Numbers	<ol style="list-style-type: none"><li>1. Absolute value of rational numbers <small>KGX</small></li></ol>
<b>3.3:</b> Comparing and Ordering Rational Numbers	<ol style="list-style-type: none"><li>1. Convert between improper fractions and mixed numbers <small>P9A</small></li><li>2. Convert between decimals and fractions <small>FL5</small></li><li>3. Compare rational numbers <small>KS2</small></li><li>4. Put rational numbers in order <small>5AX</small></li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Put a mix of decimals, fractions, and mixed numbers in order <small>AWV</small></li></ul>

# Module 4

## Operations with Fractions

Textbook section	IXL skills
<b>4.1:</b> Applying GCF and LCM to Fraction Operations	<ol style="list-style-type: none"> <li>Add and subtract fractions with unlike denominators AWS</li> <li>Add and subtract fractions with unlike denominators: word problems WT5</li> <li>Add and subtract mixed numbers TPZ</li> <li>Add and subtract mixed numbers: word problems X8C</li> <li>Multiply fractions by whole numbers I CGR</li> <li>Multiply fractions by whole numbers II RLN</li> <li>Multiply two fractions BNT</li> <li>Multiply fractions: word problems 94H</li> <li>Multiply mixed numbers and whole numbers VUH</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Greatest common factor AMB</li> <li>Least common multiple NGA</li> <li>Write fractions in lowest terms 5EW</li> </ul>
<b>4.2:</b> Dividing Fractions	<ol style="list-style-type: none"> <li>Divide whole numbers by unit fractions using models DXW</li> <li>Reciprocals 5BT</li> <li>Divide fractions DS2</li> </ol>
<b>4.3:</b> Dividing Mixed Numbers	<ol style="list-style-type: none"> <li>Divide fractions and mixed numbers N2B</li> <li>Divide fractions and mixed numbers: word problems WAH</li> </ol>
<b>4.4:</b> Solving Multistep Problems with Fractions and Mixed Numbers	<ol style="list-style-type: none"> <li>Add, subtract, multiply, or divide two fractions 2VR</li> <li>Add, subtract, multiply, or divide two fractions: word problems RDY</li> <li>Evaluate numerical expressions involving fractions WNE</li> </ol>

# Module 5

## Operations with Decimals

Textbook section	IXL skills
<b>5.1:</b> Dividing Whole Numbers	<ol style="list-style-type: none"><li>1. Divide whole numbers - 2-digit divisors FL2</li><li>2. Divide whole numbers - 3-digit divisors STW</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Divide numbers ending in zeroes: word problems 95H</li><li>• Estimate quotients 5RQ</li></ul>
<b>5.2:</b> Adding and Subtracting Decimals	<ol style="list-style-type: none"><li>1. Add and subtract decimal numbers 79J</li><li>2. Add and subtract decimals: word problems 97T</li><li>3. Add and subtract money amounts QHL</li><li>4. Add and subtract money amounts: word problems DR9</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Estimate sums and differences of decimals SJ6</li></ul>
<b>5.3:</b> Multiplying Decimals	<ol style="list-style-type: none"><li>1. Multiply decimals 2WT</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Estimate products of decimal numbers EPL</li><li>• Multiply money by whole numbers and decimals 3D8</li><li>• Multiply money: word problems C5S</li></ul>
<b>5.4:</b> Dividing Decimals	<ol style="list-style-type: none"><li>1. Divide decimals by whole numbers NLL</li><li>2. Divide decimals by whole numbers: word problems TWZ</li><li>3. Division with decimal divisors BFR</li><li>4. Divide money amounts WPH</li><li>5. Divide money amounts: word problems SEF</li></ol>

**5.5: Applying Operations with Rational Numbers**

1. Convert between decimals and fractions FL5
  2. Evaluate numerical expressions involving decimals YEE
  3. Evaluate numerical expressions involving fractions WNE
-

# Module 6

## Representing Ratios and Rates

Textbook section	IXL skills
<b>6.1:</b> Ratios	<ol style="list-style-type: none"><li>1. Write a ratio 83K</li><li>2. Write a ratio: word problems SBQ</li><li>3. Identify equivalent ratios 2LM</li><li>4. Equivalent ratios: word problems RLZ</li></ol>
<b>6.2:</b> Rates	<ol style="list-style-type: none"><li>1. Ratio tables PPF</li><li>2. Unit rates JSZ</li><li>3. Ratios and rates: word problems ZB9</li><li>4. Unit prices UKD</li></ol>
<b>6.3:</b> Using Ratios and Rates to Solve Problems	<ol style="list-style-type: none"><li>1. Write a ratio: word problems SBQ</li><li>2. Ratio tables PPF</li><li>3. Equivalent ratios: word problems RLZ</li><li>4. Compare ratios: word problems 2HT</li><li>5. Ratios and rates: word problems ZB9</li></ol>



# Module 7

## Applying Ratios and Rates

Textbook section	IXL skills
<b>7.1:</b> Ratios, Rates, Tables, and Graphs	<ol style="list-style-type: none"><li>1. Identify equivalent ratios 2LM</li><li>2. Ratio tables PPF</li><li>3. Equivalent ratios: word problems RLZ</li><li>4. Unit rates JSZ</li><li>5. Ratios and rates: word problems ZB9</li></ol>
<b>7.2:</b> Solving Problems with Proportions	<ol style="list-style-type: none"><li>1. Do the ratios form a proportion? LVW</li><li>2. Scale drawings: word problems UFW</li></ol>
<b>7.3:</b> Converting Within Measurement Systems	<ol style="list-style-type: none"><li>1. Convert and compare customary units 9TJ</li><li>2. Customary unit conversions involving fractions and mixed numbers UHE</li><li>3. Convert and compare metric units FDH</li></ol>
<b>7.4:</b> Converting Between Measurement Systems	<ol style="list-style-type: none"><li>1. Convert between customary and metric systems 5CF</li></ol>

# Module 8

## Percents

Textbook section	IXL skills
<b>8.1:</b> Understanding Percent	<ol style="list-style-type: none"><li>1. Compare percents to each other and to fractions <a href="#">GBY</a></li><li>2. Compare percents and fractions: word problems <a href="#">9C8</a></li></ol>
<b>8.2:</b> Percents, Fractions, and Decimals	<ol style="list-style-type: none"><li>1. Convert between percents, fractions, and decimals <a href="#">ZAV</a></li></ol>
<b>8.3:</b> Solving Percent Problems	<ol style="list-style-type: none"><li>1. Percents of numbers and money amounts <a href="#">8N4</a></li><li>2. Percents of numbers: word problems <a href="#">BBY</a></li><li>3. Find what percent one number is of another <a href="#">PE7</a></li><li>4. Find what percent one number is of another: word problems <a href="#">49B</a></li></ol>

# Module 9

## Generating Equivalent Numerical Expressions

Textbook section	IXL skills
<b>9.1:</b> Exponents	<ol style="list-style-type: none"><li>1. Write multiplication expressions using exponents TY5</li><li>2. Evaluate exponents XDA</li><li>3. Find the missing exponent or base HC5</li><li>4. Exponents with decimal bases D5D</li><li>5. Exponents with fractional bases GEQ</li></ol>
<b>9.2:</b> Prime Factorization	<ol style="list-style-type: none"><li>1. Identify factors BGJ</li><li>2. Prime factorization 9CP</li><li>3. Prime factorization with exponents WLU</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Prime or composite DFC</li></ul>
<b>9.3:</b> Order of Operations	<ol style="list-style-type: none"><li>1. Evaluate numerical expressions involving whole numbers MLU</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Evaluate numerical expressions involving fractions WNE</li><li>• Evaluate numerical expressions involving integers K6R</li></ul>

# Module 10

## Generating Equivalent Algebraic Expressions

Textbook section	IXL skills
<b>10.1:</b> Modeling and Writing Expressions	<ol style="list-style-type: none"><li>1. Write variable expressions: two operations CX9</li><li>2. Write variable expressions: word problems 6LQ</li></ol>
<b>10.2:</b> Evaluating Expressions	<ol style="list-style-type: none"><li>1. Evaluate variable expressions with whole numbers Q8Z</li><li>2. Evaluate multi-variable expressions HC9</li><li>3. Evaluate variable expressions with decimals, fractions, and mixed numbers 49T</li></ol>
<b>10.3:</b> Generating Equivalent Expressions	<ol style="list-style-type: none"><li>1. Identify terms and coefficients 9KE</li><li>2. Properties of addition JRM</li><li>3. Properties of multiplication HC8</li><li>4. Multiply using the distributive property 2HH</li><li>5. Write equivalent expressions using properties R8H</li><li>6. Add and subtract like terms CN9</li><li>7. Identify equivalent expressions II HTG</li></ol>

# Module 11

## Equations and Relationships

Textbook section	IXL skills
<b>11.1:</b> Writing Equations to Represent Situations	
<b>11.2:</b> Addition and Subtraction Equations	
<b>11.3:</b> Multiplication and Division Equations	<ol style="list-style-type: none"><li>1. Model and solve equations using algebra tiles G6Z</li><li>2. Solve one-step equations with whole numbers WLR</li><li>3. Solve one-step multiplication and division equations with decimals and fractions T53</li><li>4. Solve one-step equations: word problems BXY</li></ol>
<b>11.4:</b> Writing Inequalities	<ol style="list-style-type: none"><li>1. Solutions to inequalities P9N</li><li>2. Write inequalities from number lines N99</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Graph inequalities on number lines CXX</li></ul>

# Module 12

## Graphing on the Coordinate Plane

Textbook section	IXL skills
<b>12.1:</b> Graphing on the Coordinate Plane	<ol style="list-style-type: none"><li>1. Objects on a coordinate plane GFN</li><li>2. Graph points on a coordinate plane VHQ</li></ol>
<b>12.2:</b> Independent and Dependent Variables in Tables and Graphs	<ol style="list-style-type: none"><li>1. Identify independent and dependent variables: word problems 9UJ</li></ol>
<b>12.3:</b> Writing Equations from Tables	<ol style="list-style-type: none"><li>1. Complete a table for a two-variable relationship TZB</li><li>2. Write a two-variable equation 2RE</li></ol>
<b>12.4:</b> Representing Algebraic Relationships in Tables and Graphs	<ol style="list-style-type: none"><li>1. Complete a table for a two-variable relationship TZB</li><li>2. Graph a two-variable equation TJA</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Identify the graph of an equation WN7</li></ul>

# Module 13

## Area and Polygons

Textbook section	IXL skills
<b>13.1:</b> Area of Quadrilaterals	
<b>13.2:</b> Area of Triangles	1. Area of quadrilaterals 27F
<b>13.3:</b> Solving Area Equations	
<b>13.4:</b> Area of Polygons	1. Area of compound figures 76U  <i>Also consider</i> <ul style="list-style-type: none"><li>• Area between two rectangles EY6</li><li>• Area between two triangles 8RG</li></ul>

# Module 14

## Distance and Area in the Coordinate Plane

Textbook section	IXL skills
<b>14.1:</b> Distance in the Coordinate Plane	1. Distance between two points A7P
<b>14.2:</b> Polygons in the Coordinate Plane	



# Module 15

## Surface Area and Volume of Solids

### Textbook section

### IXL skills

**15.1:** Nets and Surface Area

1. Surface area of cubes and rectangular prisms RMG

*Also consider*

- Nets of three-dimensional figures 8KP

---

**15.2:** Volume of Rectangular Prisms

---

**15.3:** Solving Volume Equations

1. Volume of cubes and rectangular prisms XHF

---

# Module 16

## Displaying, Analyzing, and Summarizing Data

Textbook section	IXL skills
<b>16.1:</b> Measures of Center	
<b>16.2:</b> Mean Absolute Deviation	
<b>16.3:</b> Box Plots	1. Box plots E9F
<b>16.4:</b> Dot Plots and Data Distribution	1. Interpret line plots M5Y 2. Create line plots 5HD
<b>16.5:</b> Histograms	1. Create histograms 7NG