



# IXL Skill Alignment

4th grade alignment for EngageNY Common Core Curriculum



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/engageny-common-core-curriculum-4th-grade](http://www.ixl.com/math/skill-plans/engageny-common-core-curriculum-4th-grade)

This document includes the IXL® skill alignments to New York State Education Department's [EngageNY Common Core 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 New York State Education Department 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 © 2021

# Module 1

## Place Value, Rounding, and Algorithms for Addition and Subtraction

Textbook section	IXL skills
<b>Topic A:</b> Place Value of Multi-Digit Whole Numbers	<ol style="list-style-type: none"> <li>Convert between standard and expanded form M5V</li> <li>Writing numbers up to one million in words: convert digits to words 7WT</li> </ol>
<b>Topic B:</b> Comparing Multi-Digit Whole Numbers	
<b>Topic C:</b> Rounding Multi-Digit Whole Numbers	<ol style="list-style-type: none"> <li>Rounding: up to millions place E6V</li> <li>Estimate sums VMD</li> <li>Estimate sums: word problems SB9</li> <li>Estimate differences QJY</li> <li>Estimate differences: word problems GWS</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Estimate products: word problems WGL</li> <li>Estimate sums, differences, products, and quotients: word problems CRD</li> </ul>
<b>Topic D:</b> Multi-Digit Whole Number Addition	<ol style="list-style-type: none"> <li>Add two numbers up to seven digits PFA</li> <li>Add two numbers up to seven digits: word problems KJU</li> <li>Add 3 or more numbers up to millions ZMC</li> </ol>
<b>Topic E:</b> Multi-Digit Whole Number Subtraction	<ol style="list-style-type: none"> <li>Subtract numbers up to seven digits VPX</li> </ol>
<b>Topic F:</b> Addition and Subtraction Word Problems	

## Module 2

### Unit Conversions and Problem Solving with Metric Measurement

Textbook section	IXL skills
<b>Topic A:</b> Metric Unit Conversions	<ol style="list-style-type: none"><li>1. Compare and convert metric units of length <small>GZM</small></li><li>2. Compare and convert metric units of weight <small>7RC</small></li><li>3. Compare and convert metric units of volume <small>FHV</small></li></ol>
<b>Topic B:</b> Application of Metric Unit Conversions	<ol style="list-style-type: none"><li>1. Compare and convert metric units <small>UL5</small></li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Which metric unit is appropriate? <small>FPM</small></li></ul>

# Module 3

## Multi-Digit Multiplication and Division

Textbook section	IXL skills
<b>Topic A:</b> Multiplicative Comparison Word Problems	
<b>Topic B:</b> Multiplication by 10, 100, and 1,000	
<b>Topic C:</b> Multiplication of up to Four Digits by Single-Digit Numbers	<ol style="list-style-type: none"> <li>1. Multiply 1-digit numbers by 2-digit numbers <a href="#">GDW</a></li> <li>2. Multiply 1-digit numbers by 3-digit or 4-digit numbers <a href="#">PPM</a></li> <li>3. Distributive property: find the missing factor <a href="#">US7</a></li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Multiply using the distributive property <a href="#">LXG</a></li> </ul>
<b>Topic D:</b> Multiplication Word Problems	
<b>Topic E:</b> Division of Tens and Ones with Successive Remainders	<ol style="list-style-type: none"> <li>1. Divide 2-digit numbers by 1-digit numbers <a href="#">4T7</a></li> <li>2. Divide 2-digit numbers by 1-digit numbers: word problems <a href="#">QMT</a></li> <li>3. Divide 2-digit numbers by 1-digit numbers: interpret remainders <a href="#">5WV</a></li> </ol>
<b>Topic F:</b> Reasoning with Divisibility	<ol style="list-style-type: none"> <li>1. Prime and composite: up to 20 <a href="#">TNF</a></li> <li>2. Choose the multiples of a given number up to 12 <a href="#">ENC</a></li> <li>3. Identify factors <a href="#">2S9</a></li> </ol>
<b>Topic G:</b> Division of Thousands, Hundreds, Tens, and Ones	<ol style="list-style-type: none"> <li>1. Divide 2-digit numbers by 1-digit numbers: interpret remainders <a href="#">5WV</a></li> <li>2. Divide larger numbers by 1-digit numbers <a href="#">GE8</a></li> <li>3. Divide larger numbers by 1-digit numbers: word problems <a href="#">DKK</a></li> <li>4. Divide larger numbers by 1-digit numbers: interpret remainders <a href="#">J8D</a></li> </ol>

**Topic H:** Multiplication of Two-Digit by Two-Digit Numbers

1. Multiply a 2-digit number by a 2-digit number: complete the missing steps XQ8
2. Multiply a 2-digit number by a 2-digit number MLC

*Also consider*

- Multiply a 2-digit number by a 2-digit number: word problems GZG
-

# Module 4

## Angle Measure and Plane Figures

Textbook section	IXL skills
<b>Topic A:</b> Lines and Angles	<ol style="list-style-type: none"><li>1. Points, lines, line segments, rays, and angles 9MK</li><li>2. Parallel, perpendicular, and intersecting lines 8VQ</li><li>3. Acute, right, obtuse, and straight angles R5K</li></ol>
<b>Topic B:</b> Angle Measurement	<ol style="list-style-type: none"><li>1. Angles of 90, 180, 270, and 360 degrees UQV</li><li>2. Measure angles with a protractor NCN</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Estimate angle measurements LUJ</li></ul>
<b>Topic C:</b> Problem Solving with the Addition of Angle Measures	<ol style="list-style-type: none"><li>1. Adjacent angles VJY</li></ol>
<b>Topic D:</b> Two-Dimensional Figures and Symmetry	<ol style="list-style-type: none"><li>1. Acute, obtuse, and right triangles 7QK</li><li>2. Scalene, isosceles, and equilateral triangles 5UV</li><li>3. Classify quadrilaterals A6V</li><li>4. Identify lines of symmetry 9FD</li></ol>

# Module 5

## Fraction Equivalence, Ordering, and Operations

Textbook section	IXL skills
<b>Topic A:</b> Decomposition and Fraction Equivalence	<ol style="list-style-type: none"> <li>1. Decompose fractions into unit fractions XHG</li> <li>2. Decompose fractions N2Z</li> <li>3. Decompose fractions multiple ways UEW</li> </ol>
<b>Topic B:</b> Fraction Equivalence Using Multiplication and Division	<ol style="list-style-type: none"> <li>1. Find equivalent fractions using area models HYC</li> <li>2. Graph equivalent fractions on number lines WQL</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Identify equivalent fractions GSG</li> </ul>
<b>Topic C:</b> Fraction Comparison	<ol style="list-style-type: none"> <li>1. Graph and compare fractions with like numerators or denominators on number lines 9XF</li> <li>2. Compare fractions with like numerators or denominators M8E</li> <li>3. Benchmark fractions LUS</li> <li>4. Compare fractions using benchmarks EHJ</li> <li>5. Compare fractions 99U</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Compare fractions using models 7XF</li> </ul>
<b>Topic D:</b> Fraction Addition and Subtraction	<ol style="list-style-type: none"> <li>1. Add fractions with like denominators using number lines 6QH</li> <li>2. Subtract fractions with like denominators using number lines MJX</li> <li>3. Add and subtract fractions with like denominators using number lines GAK</li> <li>4. Add and subtract fractions with like denominators FXD</li> <li>5. Add and subtract fractions with like denominators: word problems XBR</li> <li>6. Add and subtract fractions with like denominators in recipes LYR</li> <li>7. Add 3 or more fractions with like denominators LNE</li> </ol>

8. Add fractions with unlike denominators 7BJ

*Also consider*

- Convert between improper fractions and mixed numbers JFE
- Add fractions with unlike denominators using models 6PM

---

**Topic E:** Extending Fraction Equivalence to Fractions Greater Than 1

1. Create and interpret line plots with fractions QQB
2. Convert between improper fractions and mixed numbers JFE
3. Multiply unit fractions by whole numbers using number lines XKJ
4. Multiply unit fractions by whole numbers EXQ

---

**Topic F:** Addition and Subtraction of Fractions by Decomposition

1. Add and subtract mixed numbers with like denominators 9AS

---

**Topic G:** Repeated Addition of Fractions as Multiplication

1. Multiply fractions by whole numbers JLH
2. Multiply fractions by whole numbers: word problems LX8
3. Multiply fractions and mixed numbers by whole numbers in recipes 7B3

*Also consider*

- Create and interpret line plots with fractions QQB
- Multiply fractions by whole numbers using number lines Q7B
- Multiply fractions by whole numbers using models Y5C

---

**Topic H:** Exploring a Fraction Pattern

---



# Module 6

## Decimal Fractions

### Textbook section

### IXL skills

#### Topic A: Exploration of Tenths

#### Topic B: Tenths and Hundredths

1. What decimal number is illustrated? B7E
2. Model decimals and fractions TPV
3. Graph decimals on number lines N93
4. Decimal number lines EWY
5. Graph fractions as decimals on number lines 2N9
6. Convert decimals between standard and expanded form using fractions YCH

#### *Also consider*

- Fractions with denominators of 10 and 100 VLP

#### Topic C: Decimal Comparison

1. Compare decimals on number lines T2W
2. Put decimal numbers in order I LVX
3. Put decimal numbers in order II WFD
4. Compare decimals and fractions on number lines 8YG

#### *Also consider*

- Compare money amounts EAL

#### Topic D: Addition with Tenths and Hundredths

1. Identify fraction expressions with a particular sum: denominators of 10 and 100 TZH
2. Solve decimal problems using diagrams WCK

#### Topic E: Money Amounts as Decimal Numbers

1. Add and subtract money amounts 3Y6
2. Find the change, price, or amount paid RTE
3. Price lists with addition and subtraction 92H

#### *Also consider*

- Count coins and bills - up to \$20 bill M67

# Module 7

## Exploring Measurement with Multiplication

Textbook section	IXL skills
<p><b>Topic A:</b> Measurement Conversion Tables</p>	<ol style="list-style-type: none"> <li>1. Compare and convert customary units of volume <a href="#">GAA</a></li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Compare and convert customary units of length <a href="#">A89</a></li> <li>• Compare and convert customary units <a href="#">DRM</a></li> <li>• Compare customary units by multiplying <a href="#">8U7</a></li> <li>• Convert time units <a href="#">VNU</a></li> </ul>
<p><b>Topic B:</b> Problem Solving with Measurement</p>	<ol style="list-style-type: none"> <li>1. Add and subtract mixed time units <a href="#">VD2</a></li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Compare customary units by multiplying <a href="#">8U7</a></li> <li>• Add and subtract mixed customary units <a href="#">GGD</a></li> </ul>
<p><b>Topic C:</b> Investigation of Measurements Expressed as Mixed Numbers</p>	
<p><b>Topic D:</b> Year in Review</p>	<ol style="list-style-type: none"> <li>1. Prime and composite: up to 20 <a href="#">TNF</a></li> <li>2. Add two numbers up to seven digits <a href="#">PFA</a></li> <li>3. Subtract numbers up to seven digits <a href="#">VPX</a></li> <li>4. Multiply 1-digit numbers by 2-digit numbers <a href="#">GDW</a></li> <li>5. Multiply 1-digit numbers by 3-digit or 4-digit numbers <a href="#">PPM</a></li> <li>6. Multiply using the distributive property <a href="#">LXG</a></li> <li>7. Multiply a 2-digit number by a 2-digit number <a href="#">MLC</a></li> <li>8. Divide 2-digit numbers by 1-digit numbers <a href="#">4T7</a></li> <li>9. Divide larger numbers by 1-digit numbers <a href="#">GE8</a></li> <li>10. Count coins and bills - up to \$20 bill <a href="#">M67</a></li> <li>11. Which metric unit is appropriate? <a href="#">FPM</a></li> <li>12. Compare and convert metric units of length <a href="#">GZM</a></li> </ol>

13. Compare and convert metric units of weight 7RC
  14. Compare and convert metric units of volume FHV
  15. Compare and convert metric units UL5
  16. Convert between improper fractions and mixed numbers JFE
  17. Graph decimals on number lines N93
  18. Graph fractions as decimals on number lines 2N9
  19. Parallel, perpendicular, and intersecting lines 8VQ
  20. Scalene, isosceles, and equilateral triangles 5UV
  21. Classify quadrilaterals A6V
  22. Identify lines of symmetry 9FD
  23. Acute, right, obtuse, and straight angles R5K
  24. Measure angles with a protractor NCN
  25. Area of complex figures (with all right angles) 38W
  26. Area between two rectangles GY2
-