



# IXL Skill Alignment

2nd grade alignment for EngageNY Common Core Curriculum



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# Module 1

## Sums and Differences to 20

### Textbook section

**Topic A:** Foundations for Fluency with Sums and Differences Within 100

### IXL skills

1. Add one-digit numbers - sums to 10 M55
2. Ways to make a number with addition - sums to 10 KKE
3. Subtract one-digit numbers - up to 10 VY2
4. Ways to subtract - up to 10 RHJ
5. Place value models - tens and ones HQR

#### *Also consider:*

- Complete the addition sentence - sums to 20 MQX
- Complete the subtraction sentence - up to 18 QS5

**Topic B:** Initiating Fluency with Addition and Subtraction Within 100

1. Subtract a one-digit number from a two-digit number up to 18 HSU
2. Subtraction word problems - up to 18 2FD
3. Subtraction sentences for word problems - up to 18 AZ8
4. Add multiples of 10 NPQ
5. Subtract a one-digit number from a two-digit number - with regrouping P85

#### *Also consider:*

- Add one-digit numbers 5C6
- Addition word problems - sums to 20 EN6
- Addition sentences for word problems - sums to 20 VSF
- Add a two-digit and a one-digit number - without regrouping EZ7
- Add a two-digit and a one-digit number - with regrouping 8BT
- Subtract a one-digit number from a two-digit number - without regrouping L8D
- Related addition facts YDX
- Related subtraction facts P6Y

- Fact families NSN
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## Module 2

### Addition and Subtraction of Length Units

| Textbook section  | IXL skills   |
|---|--|
| <b>Topic A:</b> Understand Concepts About the Ruler                           | <ol style="list-style-type: none"><li>1. Measure using a centimeter ruler 7WA</li></ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"><li>• Metric units of length: word problems KJ5</li></ul> |
| <b>Topic B:</b> Measure and Estimate Length Using Different Measurement Tools | <ol style="list-style-type: none"><li>1. Measure using a centimeter ruler 7WA</li><li>2. Which metric unit of length is appropriate? SKH</li></ol>   |
| <b>Topic C:</b> Measure and Compare Lengths Using Different Length Units      | <ol style="list-style-type: none"><li>1. Metric units of length: word problems KJ5</li></ol>   |
| <b>Topic D:</b> Relate Addition and Subtraction to Length                     | <ol style="list-style-type: none"><li>1. Metric units of length: word problems KJ5</li></ol>   |

# Module 3

## Place Value, Counting, and Comparison of Numbers to 1000

| Textbook section  | IXL skills  |
|---|---|
| <b>Topic A:</b> Forming Base Ten Units of Ten, a Hundred, and a Thousand        | <ol style="list-style-type: none"> <li>Place value models - tens and ones HQR</li> <li>Place value models - up to hundreds PBX</li> </ol>   |
| <b>Topic B:</b> Understanding Place Value Units of One, Ten, and a Hundred      | <ol style="list-style-type: none"> <li>Place value models - up to hundreds PBX</li> </ol>   |
| <b>Topic C:</b> Three-Digit Numbers in Unit, Standard, Expanded, and Word Forms | <ol style="list-style-type: none"> <li>Writing numbers up to 1,000 in words - convert words to digits JKD</li> <li>Place value models - up to hundreds PBX</li> <li>Identify a digit up to the hundreds place 45U</li> <li>Place value - tens and ones RSH</li> <li>Place value - up to hundreds BDF</li> <li>Convert to/from a number - tens and ones GDN</li> <li>Regroup tens and ones 5LV</li> <li>Convert to/from a number - up to hundreds HUX</li> <li>Convert from expanded form - up to hundreds LG5</li> </ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"> <li>Regroup tens and ones - ways to make a number JKT</li> </ul> |
| <b>Topic D:</b> Modeling Base Ten Numbers Within 1,000 with Money               |   |
| <b>Topic E:</b> Modeling Numbers Within 1,000 with Place Value Disks            | <ol style="list-style-type: none"> <li>Place value models - up to hundreds PBX</li> <li>Convert to/from a number - tens and ones GDN</li> <li>Regroup tens and ones - ways to make a number JKT</li> <li>Convert to/from a number - up to hundreds HUX</li> </ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"> <li>Regroup tens and ones 5LV</li> </ul>  |

**Topic F:** Comparing Two Three-Digit Numbers

1. Comparing numbers up to 1,000 XF9
2. Put numbers up to 1,000 in order 3N2

**Topic G:** Finding 1, 10, and 100 More or Less Than a Number

1. Hundreds chart LHN

# Module 4

## Addition and Subtraction Within 200 with Word Problems to 100

### Textbook section

### IXL skills

#### Topic A: Sums and Differences Within 100

1. Hundreds chart LHN
2. Write the addition sentence - up to two digits 5FM
3. Subtract two two-digit numbers - with regrouping TWE
4. Subtraction word problems - up to two digits UFU
5. Write the subtraction sentence - up to two digits ZQH
6. Addition and subtraction word problems - up to 100 MEP

#### Topic B: Strategies for Composing a Ten

1. Add two-digit numbers without regrouping - sums to 100 TX5
2. Addition word problems - up to two digits XAT
3. Write the addition sentence - up to two digits 5FM

#### Topic C: Strategies for Decomposing a Ten

1. Subtract a one-digit number from a two-digit number - without regrouping L8D
2. Subtract a one-digit number from a two-digit number - with regrouping P85
3. Subtract two two-digit numbers - without regrouping R8C
4. Subtract two two-digit numbers - with regrouping TWE
5. Subtraction word problems - up to two digits UFU
6. Write the subtraction sentence - up to two digits ZQH

#### *Also consider:*

- Balance subtraction equations - up to two digits SRC

**Topic D:** Strategies for Composing Tens and Hundreds

1. Add four or more one-digit numbers 77J
2. Add multiples of 10 NPQ
3. Add two-digit numbers with regrouping - sums to 100 GLX
4. Addition word problems - up to two digits XAT
5. Write the addition sentence - up to two digits 5FM
6. Add three numbers up to two digits each YTH
7. Add three numbers up to two digits each: word problems 52T
8. Add four numbers up to two digits each DP6
9. Add four numbers up to two digits each: word problems YSX

*Also consider:*

- Ways to make a number using addition S5E

**Topic E:** Strategies for Decomposing Tens and Hundreds

1. Subtract two two-digit numbers - with regrouping TWE

**Topic F:** Student Explanations of Written Methods

1. Add two-digit numbers with regrouping - sums to 100 GLX
2. Addition word problems - up to two digits XAT
3. Write the addition sentence - up to two digits 5FM
4. Add three numbers up to two digits each: word problems 52T
5. Subtraction word problems - up to two digits UFU
6. Write the subtraction sentence - up to two digits ZQH
7. Addition and subtraction word problems - up to 100 MEP



# Module 5

## Addition and Subtraction Within 1000 with Word Problems to 100

### Textbook section

### IXL skills

**Topic A:** Strategies for Adding and Subtracting Within 1,000

**Topic B:** Strategies for Composing Tens and Hundreds Within 1,000

**Topic C:** Strategies for Decomposing Tens and Hundreds Within 1,000

1. Subtract three-digit numbers ZVR

*Also consider:*

- Complete the subtraction sentence - up to three digits MDY

**Topic D:** Student Explanations for Choice of Solution Methods

1. Subtract three-digit numbers ZVR

*Also consider:*

- Complete the subtraction sentence - up to three digits MDY

# Module 6

## Foundations of Multiplication and Division

| Textbook section   | IXL skills   |
|--|--|
| <b>Topic A:</b> Formation of Equal Groups  | 1. Count equal groups LHS  |
| <b>Topic B:</b> Arrays and Equal Groups  | 1. Identify repeated addition in arrays: sums to 10 F7E<br>2. Write addition sentences for arrays: sums to 10 Z7N<br>3. Identify repeated addition in arrays: sums to 25 EUS<br>4. Write addition sentences for arrays: sums to 25 W8T   |
| <b>Topic C:</b> Rectangular Arrays as a Foundation for Multiplication and Division | 1. Identify repeated addition in arrays: sums to 10 F7E<br>2. Identify repeated addition in arrays: sums to 25 EUS   |
| <b>Topic D:</b> The Meaning of Even and Odd Numbers                                | 1. Even or odd 54Z<br>2. Add doubles using models S57<br><br><i>Also consider:</i> <ul style="list-style-type: none"> <li>• Even or odd numbers on number lines S8E</li> <li>• Identify numbers as even or odd RGJ</li> <li>• Select even or odd numbers JLX</li> <li>• Which even or odd number comes before or after? CJK</li> </ul> |

# Module 7

## Problem Solving with Length, Money, and Data

### Textbook section

### IXL skills

#### Topic A: Problem Solving with Categorical Data

1. Interpret tally charts 2VQ
2. Interpret bar graphs II 8CH
3. Which bar graph is correct? BMG

#### Also consider:

- Create bar graphs 6KD
- Interpret pictographs II YL6
- Create pictographs II P2T

#### Topic B: Problem Solving with Coins and Bills

1. Count money - pennies, nickels, and dimes only AVN
2. Equivalent amounts of money - up to \$1 MGA
3. Comparing groups of coins FVT
4. Add money - up to \$1: word problems ZWJ
5. Subtract money - up to \$1: word problems ME9
6. Add and subtract money - up to \$1: word problems N5Y
7. Least number of coins QAP
8. How much more to make a dollar? V9L

#### Also consider:

- Names and values of common coins 2QM
- Count money - up to \$1 DGK
- Exchanging money - with pictures VZD
- Add money - up to \$1 6X3
- Subtract money - up to \$1 WH5
- Add and subtract money - up to \$1 LYC
- Purchases - do you have enough money - up to \$1 F62
- Making change LYP

#### Topic C: Creating an Inch Ruler

1. Measure using an inch ruler 88A

**Topic D:** Measuring and Estimating Length Using Customary and Metric Units

1. Measure using an inch ruler 88A
  2. Which customary unit of length is appropriate: inches, feet, or yards? GKJ
  3. Customary units of length: word problems GSF
  4. Measure using a centimeter ruler 7WA
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**Topic E:** Problem Solving with Customary and Metric Units**Topic F:** Displaying Measurement Data

1. Interpret tally charts 2VQ
  2. Interpret line plots HY6
  3. Create line plots F2U
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# Module 8

## Time, Shapes, and Fractions as Equal Parts of Shapes

| Textbook section  | IXL skills  |
|---|---|
| <b>Topic A:</b> Attributes of Geometric Shapes                        | <ol style="list-style-type: none"><li>1. Count sides and vertices EAQ</li><li>2. Compare sides and vertices G9N</li></ol>   |
| <b>Topic B:</b> Composite Shapes and Fraction Concepts                | <ol style="list-style-type: none"><li>1. Equal parts H5R</li></ol>  |
| <b>Topic C:</b> Halves, Thirds, and Fourths of Circles and Rectangles |   |
| <b>Topic D:</b> Application of Fractions to Tell Time                 | <ol style="list-style-type: none"><li>1. Match analog clocks and times D9K</li><li>2. Read clocks and write times: hour and half hour AQW</li><li>3. Read clocks and write times K7F</li><li>4. Time words: o'clock, half, quarter 5TA</li><li>5. A.M. or P.M. EJV</li><li>6. Elapsed time I UDE</li><li>7. Elapsed time II L9C</li></ol> |