



IXL Skill Alignment

2nd 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-2nd-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 for more information

IXL Learning © 2021

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
-

Module 2

Addition and Subtraction of Length Units

Textbook section	IXL skills
Topic A: Understand Concepts About the Ruler	<ol style="list-style-type: none">1. Measure using a centimeter ruler 7WA <p><i>Also consider</i></p> <ul style="list-style-type: none">• Metric units of length: word problems KJ5
Topic B: Measure and Estimate Length Using Different Measurement Tools	<ol style="list-style-type: none">1. Measure using a centimeter ruler 7WA2. Which metric unit of length is appropriate? SKH
Topic C: Measure and Compare Lengths Using Different Length Units	<ol style="list-style-type: none">1. Metric units of length: word problems KJ5
Topic D: Relate Addition and Subtraction to Length	<ol style="list-style-type: none">1. Metric units of length: word problems KJ5

Module 3

Place Value, Counting, and Comparison of Numbers to 1000

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



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
<p>Topic A: Sums and Differences Within 100</p>	<ol style="list-style-type: none"> 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
<p>Topic B: Strategies for Composing a Ten</p>	<ol style="list-style-type: none"> 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
<p>Topic C: Strategies for Decomposing a Ten</p>	<ol style="list-style-type: none"> 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 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • 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	<ol style="list-style-type: none">1. Subtract three-digit numbers ZVR <p><i>Also consider</i></p> <ul style="list-style-type: none">• Complete the subtraction sentence - up to three digits MDY
Topic D: Student Explanations for Choice of Solution Methods	<ol style="list-style-type: none">1. Subtract three-digit numbers ZVR <p><i>Also consider</i></p> <ul style="list-style-type: none">• Complete the subtraction sentence - up to three digits MDY

Module 6

Foundations of Multiplication and Division

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

Module 7

Problem Solving with Length, Money, and Data

Textbook section	IXL skills
<p>Topic A: Problem Solving with Categorical Data</p>	<ol style="list-style-type: none"> 1. Interpret tally charts 2VQ 2. Interpret bar graphs II 8CH 3. Which bar graph is correct? BMG <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Create bar graphs 6KD • Interpret pictographs II YL6 • Create pictographs II P2T
<p>Topic B: Problem Solving with Coins and Bills</p>	<ol style="list-style-type: none"> 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 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • 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
<p>Topic C: Creating an Inch Ruler</p>	<ol style="list-style-type: none"> 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
-

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
-

Module 8

Time, Shapes, and Fractions as Equal Parts of Shapes

Textbook section	IXL skills
Topic A: Attributes of Geometric Shapes	<ol style="list-style-type: none">1. Count sides and vertices EAQ2. Compare sides and vertices G9N
Topic B: Composite Shapes and Fraction Concepts	<ol style="list-style-type: none">1. Equal parts H5R
Topic C: Halves, Thirds, and Fourths of Circles and Rectangles	
Topic D: Application of Fractions to Tell Time	<ol style="list-style-type: none">1. Match analog clocks and times D9K2. Read clocks and write times: hour and half hour AQW3. Read clocks and write times K7F4. Time words: o'clock, half, quarter 5TA5. A.M. or P.M. EJV6. Elapsed time I UDE7. Elapsed time II L9C