



IXL Skill Alignment

2nd grade alignment for EngageNY Math



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Module 1

Sums and Differences to 100

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

Textbook section	IXL skills
Lesson 1	<ol style="list-style-type: none"> 1. Make and take apart teen numbers: addition sentences 9CC 2. Complete the addition sentence - make ten E78
Lesson 2	<ol style="list-style-type: none"> 1. Place value models - tens and ones HQR 2. Convert to/from a number - tens and ones GDN 3. Convert from expanded form - up to 100 ZJZ

Topic B: Initiating Fluency with Addition and Subtraction Within 100

Textbook section	IXL skills
Lesson 3	<ol style="list-style-type: none"> 1. Add and subtract numbers up to 20 QQP 2. Add or subtract a one-digit number and a two-digit number - without regrouping 6JJ 3. Add or subtract a multiple of 10 9NL
Lesson 4	<ol style="list-style-type: none"> 1. Make ten to add YJE 2. Add one-digit numbers 5C6 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Complete the addition sentence - sums to 20 MQX
Lesson 5	<ol style="list-style-type: none"> 1. Add a two-digit and a one-digit number - with regrouping 8BT
Lesson 6	
Lesson 7	<ol style="list-style-type: none"> 1. Subtract a one-digit number from a two-digit number up to 18 HSU <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Complete the subtraction sentence - up to 18 QS5



Lesson 8

1. Subtract a one-digit number from a two-digit number - with regrouping P85
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Module 2

Addition and Subtraction of Length Units

Topic A: Understand Concepts About the Ruler

Textbook section	IXL skills
Lesson 1	1. Count cubes to measure length 7QP
Lesson 2	1. Measure length with cubes 9Y9
Lesson 3	1. Measure using a centimeter ruler 7WA

Topic B: Measure and Estimate Length Using Different Measurement Tools

Textbook section	IXL skills
Lesson 4	1. Convert between centimeters and meters Y6Z
Lesson 5	1. Which metric unit of length is appropriate? SKH

Topic C: Measure and Compare Lengths Using Different Length Units

Textbook section	IXL skills
Lesson 6	
Lesson 7	

Topic D: Relate Addition and Subtraction to Length

Textbook section	IXL skills
Lesson 8	1. Addition and subtraction sentences using number lines: up to 20 7TD
Lesson 9	
Lesson 10	1. Metric units of length: word problems KJ5

Module 3

Place Value, Counting, and Comparison of Numbers to 1,000

Topic A: Forming Base Ten Units of Ten, a Hundred, and a Thousand

Textbook section	IXL skills
Lesson 1	<ol style="list-style-type: none"> Skip-counting by tens 5PY Count by ones and tens 74K <p><i>Also consider</i></p> <ul style="list-style-type: none"> Skip-counting by fives and tens FVF

Topic B: Understanding Place Value Units of One, Ten, and a Hundred

Textbook section	IXL skills
Lesson 2	<ol style="list-style-type: none"> Count by ones, tens, and hundreds SVE
Lesson 3	<ol style="list-style-type: none"> Count forward and backward by ones, tens, and hundreds 6TB <p><i>Also consider</i></p> <ul style="list-style-type: none"> Count forward and backward by fives, tens, and hundreds R5A

Topic C: Three-Digit Numbers in Unit, Standard, Expanded, and Word Form

Textbook section	IXL skills
Lesson 4	<ol style="list-style-type: none"> Identify a digit up to the hundreds place 45U
Lesson 5	<ol style="list-style-type: none"> Place value - up to hundreds BDF Convert to/from a number - up to hundreds: digits only F42 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Convert from expanded form - up to hundreds LG5
Lesson 6	<ol style="list-style-type: none"> Convert between standard and expanded form DZB

Lesson 7

1. Writing numbers up to 1,000 in words - convert words to digits JKD
2. Writing numbers up to 1,000 in words - convert digits to words VPQ
3. Convert to/from a number - up to hundreds HUX

Topic D: Modeling Base Ten Numbers Within 1,000 with Money

Textbook section	IXL skills
Lesson 8	1. Count money - \$1 and \$10 bills LFT
Lesson 9	1. Number lines - up to 1,000 KFQ <i>Also consider</i> • Count money - pennies and dimes only YUN
Lesson 10	1. Count by tens and hundreds Z8G

Topic E: Modeling Number Within 1,000 with Place Value Disks

Textbook section	IXL skills
Lesson 11	1. Place value models up to hundreds: find the model CGY
Lesson 12	1. Convert between place values - ones, tens, and hundreds M6X
Lesson 13	1. Place value models up to hundreds: find the number EQV
Lesson 14	1. Regroup tens and ones - ways to make a number JKT
Lesson 15	1. Regroup tens and ones 5LV

Topic F: Comparing Two Three-Digit Numbers

Textbook section	IXL skills
Lesson 16	1. Comparing numbers up to 1,000 XF9
Lesson 17	<i>Also consider</i> <ul style="list-style-type: none">• Greatest and least - word problems - up to 1,000 6QX
Lesson 18	1. Put numbers up to 1,000 in order 3N2

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

Textbook section	IXL skills
Lesson 19	1. Hundred chart LHN
Lesson 20	2. Count forward and backward by tens and hundreds 7U4
Lesson 21	1. Count up or down by ones, tens, and hundreds M5A

Module 4

Addition and Subtraction Within 200 with Word Problems to 100

Topic A: Sums and Differences Within 100

Textbook section	IXL skills
Lesson 1	<ol style="list-style-type: none"> Adding 1 or 10 EZG Subtracting 1 MQJ Input/output tables - add and subtract by 10 WR2
Lesson 2	<ol style="list-style-type: none"> Add a multiple of ten and a two-digit number NQL Subtract a multiple of ten from a two-digit number 9BC
Lesson 3	<ol style="list-style-type: none"> Use compensation to add - up to two digits SCF Use compensation to subtract - up to two digits 6TE
Lesson 4	
Lesson 5	<ol style="list-style-type: none"> Addition word problems - sums to 99 PDT Subtraction word problems - two-digit numbers 4K5

Topic B: Strategies for Composing a Ten

Textbook section	IXL skills
Lesson 6	<ol style="list-style-type: none"> Use models to add a two-digit and a one-digit number - with regrouping URQ Use models to add two-digit numbers - with regrouping QL8 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Use models to add a two-digit and a one-digit number - without regrouping QC9 Use models to add two-digit numbers - without regrouping GK2

Lesson 7

1. Add two-digit numbers with regrouping - sums to 100 GLX

Also consider

- Add two-digit numbers without regrouping - sums to 100 TX5

Lesson 8

1. Add two-digit numbers - sums to 99 LZJ
2. Write the addition sentence - sums to 99 5AD

Also consider

- Addition input/output tables - up to two digits 5NL

Lesson 9**Lesson 10****Topic C: Strategies for Decomposing a Ten****Textbook section****IXL skills****Lesson 11**

1. Use models to subtract a one-digit number from a two-digit number - with regrouping MU8
2. Use models to subtract two-digit numbers - with regrouping EVB

Also consider

- Use models to subtract a one-digit number from a two-digit number - without regrouping WKG
- Use models to subtract two-digit numbers - without regrouping SKW

Lesson 12

1. Subtract two-digit numbers - with regrouping TWE

Also consider

- Subtract two-digit numbers - without regrouping R8C

Lesson 13

1. Subtract two-digit numbers - up to 100 VM6
2. Write the subtraction sentence - up to two digits ZQH

Also consider

- Subtraction input/output tables - up to two digits NJ5

Lesson 14**Lesson 15****Lesson 16**

1. Addition and subtraction word problems - up to 100 MEP
2. Write the addition or subtraction sentence - up to two digits JHU

Topic D: Strategies for Composing Tens and Hundreds**Textbook section****IXL skills****Lesson 17**

1. Add multiples of 10 - up to 200 DAR

Lesson 18

1. Add two-digit numbers - sums to 200 GZY

Lesson 19*Also consider*

- Complete the addition sentence - up to two digits CZK

Lesson 20

1. Addition word problems - up to two digits XAT

Lesson 21**Lesson 22**

1. Add three numbers up to two digits each YTH
2. Add four numbers up to two digits each DP6

Also consider

- Add three numbers up to two digits each: word problems 52T

- Add four numbers up to two digits each: word problems YSX

Topic E: Strategies for Decomposing Tens and Hundreds

Textbook section	IXL skills
Lesson 23	1. Subtract multiples of 10 - up to 200 ZJB
Lesson 24	1. Subtract two-digit numbers DZH <i>Also consider</i> • Relate addition and subtraction sentences - up to two digits 7NX
Lesson 25	1. Subtract two two-digit numbers FWD
Lesson 26	<i>Also consider</i> • Complete the subtraction sentence - up to two digits YWC
Lesson 27	1. Subtraction word problems - up to two digits UFU
Lesson 28	

Topic F: Student Explanations of Written Methods

Textbook section	IXL skills
Lesson 29	1. Ways to make a number using addition S5E <i>Also consider</i> • Ways to make a number using subtraction DTN
Lesson 30	1. Balance addition equations - up to two digits NH7 <i>Also consider</i> • Balance subtraction equations - up to two digits SRC



Lesson 31

1. Two-step addition and subtraction word problems - up to 100 7P8
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Module 5

Addition and Subtraction Within 1,000 with Word Problems to 100

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

Textbook section	IXL skills
Lesson 1	1. Count up or down by 10 or 100 6PX
Lesson 2	1. Add multiples of 100 85Z 2. Subtract multiples of 100 2E2
Lesson 3	1. Add multiples of 10 or 100 RCJ
Lesson 4	1. Subtract multiples of 10 or 100 VVM
Lesson 5	1. Use compensation to add - up to three digits 89B
Lesson 6	1. Use compensation to subtract - up to three digits DMV
Lesson 7	1. Add and subtract three-digit numbers 9V2

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

Textbook section	IXL skills
Lesson 8	1. Use models to add three-digit numbers - with regrouping KUG
Lesson 9	<i>Also consider</i> <ul style="list-style-type: none"> Use models to add three-digit numbers - without regrouping Q7V
Lesson 10	1. Addition with three-digit numbers ETW
Lesson 11	<i>Also consider</i> <ul style="list-style-type: none"> Addition word problems - up to three digits UV2

Lesson 12

1. Balance addition equations - up to three digits 5U9

Also consider

- Write the addition sentence - up to three digits PQT

Topic C: Strategies for Decomposing Tens and Hundreds Within 1,000**Textbook section****IXL skills****Lesson 13**

1. Use models to subtract from three-digit numbers without zeros - with regrouping HCT

Also consider

- Use models to subtract from three-digit numbers - without regrouping 55T

Lesson 14

1. Subtract from three-digit numbers ZVR

Lesson 15

2. Relate addition and subtraction sentences - up to three digits BBH

Also consider

- Subtraction word problems - up to three digits ZMA

Lesson 16

1. Use models to subtract from three-digit numbers with zeros - with regrouping AAC

Lesson 17

2. Subtract across zeros 9G5

Lesson 18

1. Balance subtraction equations - up to three digits LSU

Also consider

- Write the subtraction sentence - up to three digits 5B3

Topic D: Student Explanations for Choice of Solution Methods

Textbook section	IXL skills
Lesson 19	1. Add and subtract numbers up to 1,000 WXQ
Lesson 20	1. Complete the addition sentence - up to three digits R5W 2. Complete the subtraction sentence - up to three digits MDY

Module 6

Foundations of Multiplication and Division

Topic A: Formation of Equal Groups

Textbook section	IXL skills
Lesson 1	1. Count equal groups LHS
Lesson 2	1. Identify repeated addition in arrays: sums to 10 F7E
Lesson 3	1. Write addition sentences for arrays: sums to 10 Z7N
Lesson 4	

Topic B: Arrays and Equal Groups

Textbook section	IXL skills
Lesson 5	1. Write addition sentences for arrays: sums to 25 W8T
Lesson 6	2. Identify repeated addition in arrays: sums to 25 EUS
Lesson 7	1. Write addition sentences for arrays in two ways CXL
Lesson 8	
Lesson 9	

Topic C: Rectangular Arrays as a Foundation for Multiplication and Division

Textbook section	IXL skills
Lesson 10	1. Tile a rectangle with squares 2VD
Lesson 11	
Lesson 12	1. Count the number of squares in a rectangle TMY
Lesson 13	
Lesson 14	
Lesson 15	
Lesson 16	

Topic D: The Meaning of Even and Odd Numbers

Textbook section	IXL skills
Lesson 17	1. Add doubles using models S57 2. Add doubles 8Z7 3. Add doubles - complete the sentence S46
Lesson 18	1. Even or odd 54Z <i>Also consider</i> <ul style="list-style-type: none"> Skip-counting by twos LK2
Lesson 19	1. Identify numbers as even or odd RGJ 2. Select even or odd numbers JLX 3. Which even or odd number comes before or after? CJK

Also consider

- Even or odd numbers on number lines S8E

Lesson 20

1. Even or odd: addition patterns 22G
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Module 7

Problem Solving with Length, Money, and Data

Topic A: Problem Solving with Categorical Data

Textbook section	IXL skills
Lesson 1	1. Which tally chart is correct? 9DN 2. Interpret tally charts 2VQ
Lesson 2	1. Interpret pictographs I QDT 2. Create pictographs I NM5 <i>Also consider</i> <ul style="list-style-type: none"> Interpret pictographs II YL6 Create pictographs II P2T
Lesson 3	1. Create bar graphs 6KD 2. Interpret bar graphs I RPD 3. Interpret bar graphs II 8CH <i>Also consider</i> <ul style="list-style-type: none"> Which bar graph is correct? BMG
Lesson 4	1. Convert between bar graphs and tables 6WP
Lesson 5	1. Use bar graphs to solve problems SVS

Topic B: Problem Solving with Coins and Bills

Textbook section	IXL skills
Lesson 6	1. Names and values of common coins 2QM 2. Count money - up to \$1 DGK
Lesson 7	1. Add and subtract money - up to \$1: word problems N5Y

Lesson 8

1. Count money - up to \$100: bills only YPH

Also consider

- Count money - up to \$5 3R8

Lesson 9

1. Equivalent amounts of money - up to \$1 MGA

Also consider

- Exchanging money - with pictures VZD
- Exchanging money 29V

Lesson 10

1. Least number of coins QAP

Also consider

- Which picture shows more - up to \$1 LWZ

Lesson 11

1. How much more to make a dollar? V9L

Lesson 12*Also consider*

- Correct amount of change LQ7
- Making change LYP

Lesson 13**Topic C: Creating an Inch Ruler****Textbook section****IXL skills****Lesson 14**

1. Measure length with inch cubes ZUR

Lesson 15

1. Measure using an inch ruler 88A

Topic D: Measuring and Estimating Length Using Customary and Metric Units**Textbook section****IXL skills****Lesson 16**

1. Which customary unit of length is appropriate: inches, feet, or yards? GKJ

Lesson 17**Lesson 18**

Lesson 19**Topic E: Problem Solving with Customary and Metric Units**

Textbook section	IXL skills
Lesson 20	1. Customary units of length: word problems GSF
Lesson 21	
Lesson 22	

Topic F: Displaying Measurement Data

Textbook section	IXL skills
Lesson 23	1. Which table is correct? 89J 2. Interpret data in tables LH7
Lesson 24	1. Interpret line plots HY6
Lesson 25	1. Create line plots F2U
Lesson 26	1. Create line plots II M2F <i>Also consider</i> <ul style="list-style-type: none">Interpret data: mixed review 6J8

Module 8

Time, Shapes, and Fractions as Equal Parts of Shapes

Topic A: Attributes of Geometric Shapes

Textbook section	IXL skills
Lesson 1	<ol style="list-style-type: none"> Count sides and corners M9W Compare sides and corners W74
Lesson 2	<ol style="list-style-type: none"> Name the two-dimensional shape 2FK Select two-dimensional shapes DWL <p><i>Also consider</i></p> <ul style="list-style-type: none"> Open and closed shapes PCC Is it a polygon? FPQ
Lesson 3	
Lesson 4	<ol style="list-style-type: none"> Square corners 27M Draw quadrilaterals RX7 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Count parallel sides XYJ
Lesson 5	<ol style="list-style-type: none"> Cubes K6N <p><i>Also consider</i></p> <ul style="list-style-type: none"> Count vertices, edges, and faces - cubes and rectangular prisms BXS

Topic B: Composite Shapes and Fraction Concepts

Textbook section	IXL skills
Lesson 6	<ol style="list-style-type: none"> Compose two-dimensional shapes QPK
Lesson 7	<ol style="list-style-type: none"> Identify halves, thirds, and fourths 24W <p><i>Also consider</i></p> <ul style="list-style-type: none"> Equal parts H5R

Lesson 8

1. Identify halves, thirds, fourths, and sixths HMJ
2. Make halves, thirds, fourths, and sixths 9JK

Topic C: Halves, Thirds, and Fourths of Circles and Rectangles**Textbook section****IXL skills****Lesson 9**

1. Make halves XME

Also consider

- Make thirds 65F
- Make fourths QZ9

Lesson 10

1. Make halves, thirds, and fourths QD2
2. Identify the fraction PEJ

Lesson 11

1. Identify the fraction - including 1 whole 8XY
2. Which shape illustrates the fraction? PTH

Lesson 12

1. Make halves, thirds, and fourths in different ways 6SG

Topic D: Application of Fractions to Tell Time**Textbook section****IXL skills****Lesson 13**

1. Match analog clocks and times to 15 minutes GHX
2. Read clocks and write times to 15 minutes HLH
3. Time words: o'clock, half, quarter 5TA

Lesson 14

1. Match analog clocks and times D9K
2. Read clocks and write times K7F

Also consider

- Match analog and digital clocks HKL

Lesson 15

1. A.M. or P.M. EJV

Lesson 16

1. Elapsed time I UDE
2. Elapsed time II L9C