



# IXL Skill Alignment

Grade 2 alignment for enVision Mathematics Common Core



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# Topic 1

## Fluently Add and Subtract Within 20

Textbook section	IXL skills
<b>Lesson 1-1:</b> Addition Fact Strategies	<ol style="list-style-type: none"> <li>1. Add one-digit numbers - sums to 10 M55</li> <li>2. Match addition sentences and models - sums to 10 A2L</li> <li>3. Related addition facts YDX</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Write addition sentences to describe pictures - sums to 10 T2B</li> <li>• Addition sentences: which is true? GMN</li> </ul>
<b>Lesson 1-2:</b> Doubles and Near Doubles	<ol style="list-style-type: none"> <li>1. Add doubles 8Z7</li> <li>2. Add doubles - complete the sentence S46</li> <li>3. Add using doubles plus or minus one A8U</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Add doubles using models S57</li> </ul>
<b>Lesson 1-3:</b> Make a 10 to Add	<ol style="list-style-type: none"> <li>1. Make ten to add YJE</li> <li>2. Add one-digit numbers 5C6</li> </ol>
<b>Lesson 1-4:</b> Addition Fact Patterns	<ol style="list-style-type: none"> <li>1. Ways to make a number - addition sentences up to 10 BZS</li> <li>2. Ways to make a number with addition - sums to 20 9NA</li> <li>3. Complete the addition sentence - sums to 20 MQX</li> </ol>
<b>Lesson 1-5:</b> Count On and Count Back to Subtract	<ul style="list-style-type: none"> <li>• <i>Coming soon:</i> Count on to subtract</li> </ul> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Addition sentences using number lines - sums up to 20 FXF</li> <li>• Subtraction sentences using number lines - up to 20 GUZ</li> </ul>

**Lesson 1-6:** Think Addition to Subtract

1. Relate addition and subtraction sentences PRS
2. Complete the subtraction sentence - up to 18 QS5

*Also consider*

- Related subtraction facts P6Y
- Fact families NSN
- Subtraction sentences: which is true? UY2

**Lesson 1-7:** Make a 10 to Subtract

1. Subtract a one-digit number from a two-digit number up to 18 HSU

**Lesson 1-8:** Practice Addition and Subtraction Facts

1. Add and subtract numbers up to 20 QQP
2. Addition and subtraction - ways to make a number - up to 20 PD7

**Lesson 1-9:** Solve Addition and Subtraction Word Problems

1. Addition and subtraction word problems - up to 20 75R
2. Addition and subtraction sentences up to 20: which is true? KP6

*Also consider*

- Addition and subtraction sentences using number lines: up to 20 7TD

**Lesson 1-10:** Construct Arguments

1. Write addition sentences to describe pictures - sums to 20 L2M
2. Write subtraction sentences to describe pictures - up to 18 F8W

## Topic 2

### Work with Equal Groups

Textbook section	IXL skills
<b>Lesson 2-1:</b> Even and Odd Numbers	<ol style="list-style-type: none"><li>1. Even or odd 54Z</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Even or odd numbers on number lines S8E</li></ul>
<b>Lesson 2-2:</b> Continue Even and Odd Numbers	<ol style="list-style-type: none"><li>1. Identify numbers as even or odd RGJ</li><li>2. Select even or odd numbers JLX</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Which even or odd number comes before or after? CJK</li></ul>
<b>Lesson 2-3:</b> Use Arrays to Find Totals	<ol style="list-style-type: none"><li>1. Identify repeated addition in arrays: sums to 10 F7E</li><li>2. Write addition sentences for arrays: sums to 10 Z7N</li></ol>
<b>Lesson 2-4:</b> Make Arrays to Find Totals	<ol style="list-style-type: none"><li>1. Identify repeated addition in arrays: sums to 25 EUS</li></ol>
<b>Lesson 2-5:</b> Model with Math	<ol style="list-style-type: none"><li>1. Write addition sentences for arrays: sums to 25 W8T</li></ol>

# Topic

## Add Within 100 Using Strategies

Textbook section	IXL skills
<b>Lesson 3-1:</b> Add Tens and Ones on a Hundreds Chart	1. One more or ten more L2P
<b>Lesson 3-2:</b> Add Tens and Ones on an Open Number Line	1. Add multiples of 10 NPQ
<b>Lesson 3-3:</b> Break Apart Numbers to Add	
<b>Lesson 3-4:</b> Add Using Compensation	1. Use compensation to add - up to two digits SCF
<b>Lesson 3-5:</b> Practice Adding Using Strategies	1. Ways to make a number using addition S5E  <i>Also consider</i> • Addition input/output tables - up to two digits 5NL
<b>Lesson 3-6:</b> Solve One-Step and Two-Step Problems	1. Addition word problems - up to two digits XAT
<b>Lesson 3-7:</b> Construct Arguments	1. Write the addition sentence - up to two digits 5FM  <i>Also consider</i> • Write addition sentences to describe pictures XJ5

# Topic

## Fluently Add Within 100

Textbook section	IXL skills
<b>Lesson 4-1:</b> Add 2-Digit Numbers Using Models	<ol style="list-style-type: none"> <li>1. Use models to add a two-digit and a one-digit number - without regrouping <a href="#">QC9</a></li> <li>2. Use models to add two-digit numbers - without regrouping <a href="#">GK2</a></li> </ol>
<b>Lesson 4-2:</b> Continue to Add 2-Digit Numbers Using Models	<ol style="list-style-type: none"> <li>1. Use models to add a two-digit and a one-digit number - with regrouping <a href="#">URQ</a></li> <li>2. Use models to add two-digit numbers - with regrouping <a href="#">QL8</a></li> </ol>
<b>Lesson 4-3:</b> Add With Partial Sums	<ol style="list-style-type: none"> <li>1. Add a two-digit and a one-digit number - without regrouping <a href="#">EZ7</a></li> <li>2. Add two-digit numbers without regrouping - sums to 100 <a href="#">TX5</a></li> </ol>
<b>Lesson 4-4:</b> Add Using Mental Math and Partial Sums	<ol style="list-style-type: none"> <li>1. Add a two-digit and a one-digit number - with regrouping <a href="#">8BT</a></li> <li>2. Add two-digit numbers with regrouping - sums to 100 <a href="#">GLX</a></li> </ol>
<b>Lesson 4-5:</b> Break Apart Numbers and Add Using Mental Math	<ol style="list-style-type: none"> <li>1. Add two-digit numbers - sums to 100 <a href="#">PLW</a></li> <li>2. Complete the addition sentence: sums to 100 <a href="#">GSZ</a></li> </ol>
<b>Lesson 4-6:</b> Add More Than Two 2-Digit Numbers	<ol style="list-style-type: none"> <li>1. Add three numbers up to two digits each <a href="#">YTH</a></li> </ol>
<b>Lesson 4-7:</b> Practice Adding Using Strategies	<ol style="list-style-type: none"> <li>1. Add four numbers up to two digits each <a href="#">DP6</a></li> </ol>
<b>Lesson 4-8:</b> Solve One-Step and Two-Step Problems	<ol style="list-style-type: none"> <li>1. Add three numbers up to two digits each: word problems <a href="#">52T</a></li> <li>2. Add four numbers up to two digits each: word problems <a href="#">YSX</a></li> </ol>
<b>Lesson 4-9:</b> Model With Math	

# Topic 5

## Subtract Within 100 Using Strategies

Textbook section	IXL skills
<b>Lesson 5-1:</b> Subtract Tens and Ones on a Hundred Chart	1. One less or ten less LQQ
<b>Lesson 5-2:</b> Count Back to Subtract Using an Open Number Line	1. Subtract multiples of 10 2Q6
<b>Lesson 5-3:</b> Add Up to Subtract Using an Open Number Line	1. Relate addition and subtraction sentences - up to two digits 7NX
<b>Lesson 5-4:</b> Break Apart Numbers to Subtract	
<b>Lesson 5-5:</b> Subtract Using Compensation	
<b>Lesson 5-6:</b> Practice Subtracting Using Strategies	1. Ways to make a number using subtraction DTN  <i>Also consider</i> • Subtraction input/output tables - up to two digits NJ5
<b>Lesson 5-7:</b> Solve One-Step and Two-Step Problems	1. Subtraction word problems - up to two digits UFU
<b>Lesson 5-8:</b> Critique Reasoning	1. Write the subtraction sentence - up to two digits ZQH  <i>Also consider</i> • Write subtraction sentences to describe pictures - up to two digits UBF

# Topic 6

## Fluently Subtract Within 100

Textbook section	IXL skills
<b>Lesson 6-1:</b> Subtract 1-Digit Numbers Using Models	
<b>Lesson 6-2:</b> Subtract 2-Digit Numbers Using Models	
<b>Lesson 6-3:</b> Subtract Using Partial Differences	<ol style="list-style-type: none"> <li>1. Subtract a one-digit number from a two-digit number - without regrouping L8D</li> <li>2. Subtract a one-digit number from a two-digit number - with regrouping P85</li> </ol>
<b>Lesson 6-4:</b> Continue to Subtract Using Partial Differences	<ol style="list-style-type: none"> <li>1. Subtract two two-digit numbers - without regrouping R8C</li> <li>2. Subtract two two-digit numbers - with regrouping TWE</li> </ol>
<b>Lesson 6-5:</b> Practice Subtracting	<ol style="list-style-type: none"> <li>1. Subtract two-digit numbers DZH</li> <li>2. Complete the subtraction sentence - up to two digits YWC</li> </ol>
<b>Lesson 6-6:</b> Solve One-Step and Two-Step Problems	<ol style="list-style-type: none"> <li>1. Subtraction word problems - two two-digit numbers 4K5</li> </ol>
<b>Lesson 6-7:</b> Reasoning	



# Topic 7

## More Solving Problems Involving Addition and Subtraction

Textbook section	IXL skills
<b>Lesson 7-1:</b> Represent Addition and Subtraction Problems	<ol style="list-style-type: none"> <li>Add and subtract numbers up to 100 JDT</li> <li>Addition and subtraction - ways to make a number - up to 100 8WA</li> </ol>
<b>Lesson 7-2:</b> Mixed Practice: Solve Addition and Subtraction Problems	
<b>Lesson 7-3:</b> Continue Practice with Addition and Subtraction Problems	
<b>Lesson 7-4:</b> Solve Two-Step Problems	<ol style="list-style-type: none"> <li>Addition and subtraction word problems - up to 100 MEP</li> </ol>
<b>Lesson 7-5:</b> Continue to Solve Two-Step Problems	<ol style="list-style-type: none"> <li>Two-step addition and subtraction word problems - up to 100 7P8</li> </ol>
<b>Lesson 7-6:</b> Make True Equations	<ol style="list-style-type: none"> <li>Balance addition equations - up to two digits NH7</li> <li>Balance subtraction equations - up to two digits SRC</li> </ol>
<b>Lesson 7-7:</b> Continue to Make True Equations	<ol style="list-style-type: none"> <li>Addition and subtraction - balance equations - up to 100 KSG</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Which sign (+ or -) makes the number sentence true? K7X</li> </ul>
<b>Lesson 7-8:</b> Reasoning	<ol style="list-style-type: none"> <li>Write the addition or subtraction sentence - up to two digits JHU</li> </ol>

# Topic 8

## Work with Time and Money

Textbook section	IXL skills
<b>Lesson 8-1:</b> Solve Problems with Coins	<ol style="list-style-type: none"> <li>Names and values of common coins 2QM</li> <li>Count money - up to \$1 D GK</li> </ol>
<b>Lesson 8-2:</b> Continue to Solve Problems with Coins	<ol style="list-style-type: none"> <li>Add and subtract money - up to \$1 LYC</li> <li>Add and subtract money - up to \$1: word problems N5Y</li> <li>Exchanging money 29V</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Correct amount of change LQ7</li> <li>Making change LYP</li> </ul>
<b>Lesson 8-3:</b> Solve Problems with Dollar Bills	<ol style="list-style-type: none"> <li>Count money - up to \$100: bills only YPH</li> </ol>
<b>Lesson 8-4:</b> Continue to Solve Problems with Dollar Bills	<ol style="list-style-type: none"> <li>Add and subtract money - up to \$100 4N2</li> <li>Add and subtract money - up to \$100: word problems 9AQ</li> </ol>
<b>Lesson 8-5:</b> Reasoning	<ol style="list-style-type: none"> <li>Equivalent amounts of money - up to \$1 MGA</li> <li>Purchases - do you have enough money - up to \$1 F62</li> </ol>
<b>Lesson 8-6:</b> Tell and Write Time to Five Minutes	<ol style="list-style-type: none"> <li>Match analog and digital clocks HKL</li> <li>Read clocks and write times K7F</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Match digital clocks and times 36N</li> <li>Match analog clocks and times D9K</li> </ul>
<b>Lesson 8-7:</b> Tell Time Before and After the Hour	<ol style="list-style-type: none"> <li>Time words: o'clock, half, quarter 5TA</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Elapsed time I UDE</li> <li>Elapsed time II L9C</li> </ul>



**Lesson 8-8:** A.M. and P.M.

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

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# Topic 9

## Numbers to 1,000

Textbook section	IXL skills
<b>Lesson 9-1:</b> Understand Hundreds	1. Convert between place values - ones, tens, and hundreds M6X  <i>Also consider</i> <ul style="list-style-type: none"> <li>Count by tens and hundreds Z8G</li> </ul>
<b>Lesson 9-2:</b> Models and 3-Digit Numbers	1. Place value models - up to hundreds PBX 2. Identify a digit up to the hundreds place 45U
<b>Lesson 9-3:</b> Name Place Values	1. Place value - up to hundreds BDF 2. Convert to/from a number - up to hundreds HUX
<b>Lesson 9-4:</b> Read and Write 3-Digit Numbers	1. Convert from expanded form - up to hundreds LG5 2. Writing numbers up to 1,000 in words - convert words to digits JKD 3. Writing numbers up to 1,000 in words - convert digits to words VPQ
<b>Lesson 9-5:</b> Different Ways to Name the Same Number	1. Regroup tens and ones 5LV
<b>Lesson 9-6:</b> Place-Value Patterns with Numbers	1. Count forward - up to 1,000 88P 2. Count forward by tens - up to 1,000 B86
<b>Lesson 9-7:</b> Skip Count by 5s, 10s, and 100s to 1,000	1. Number lines - up to 1,000 KFQ 2. Count forward and backward by fives, tens, and hundreds R5A  <i>Also consider</i> <ul style="list-style-type: none"> <li>Skip-counting by fives and tens FVF</li> </ul>
<b>Lesson 9-8:</b> Compare Numbers Using Place Value	1. Comparing numbers up to 1,000 XF9
<b>Lesson 9-9:</b> Compare Numbers on the Number Line	1. Put numbers up to 1,000 in order 3N2



**Lesson 9-10:** Look For and Use Structure

1. Skip-counting sequences: fives, tens, and hundreds problems U8A
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# Topic 10

## Add Within 1,000 Using Models and Strategies

Textbook section	IXL skills
<b>Lesson 10-1:</b> Add 10 and 100	1. Add with a multiple of 10 or 100 LJ8
<b>Lesson 10-2:</b> Add on an Open Number Line	
<b>Lesson 10-3:</b> Add Using Models	1. Use models to add three-digit numbers - without regrouping Q7V
<b>Lesson 10-4:</b> Continue to Add Using Place Value and Models	1. Use models to add three-digit numbers - with regrouping KUG
<b>Lesson 10-5:</b> Add Using Place Value and Partial Sums	1. Addition with three-digit numbers ETW
<b>Lesson 10-6:</b> Explain Addition Strategies	1. Addition word problems - up to three digits UV2 2. Complete the addition sentence - up to three digits R5W
<b>Lesson 10-7:</b> Repeated Reasoning	1. Write the addition sentence - up to three digits PQT 2. Balance addition equations - up to three digits 5U9

# Topic 11

## Subtract Within 1,000 Using Models and Strategies

Textbook section	IXL skills
<b>Lesson 11-1:</b> Subtract 10 and 100	1. Subtract a multiple of 10 or 100 S2A
<b>Lesson 11-2:</b> Subtract on an Open Number Line	
<b>Lesson 11-3:</b> Subtract Using Models	
<b>Lesson 11-4:</b> Subtract Using Models and Place Value	1. Subtract three-digit numbers ZVR
<b>Lesson 11-5:</b> Explain Subtraction Strategies	1. Subtraction word problems - up to three digits ZMA 2. Complete the subtraction sentence - up to three digits MDY
<b>Lesson 11-6:</b> Persevere	1. Write the subtraction sentence - up to three digits 5B3 2. Balance subtraction equations - up to three digits LSU

# Topic 12

## Measuring Length

Textbook section	IXL skills
<b>Lesson 12-1:</b> Estimating Length	1. Measure length with objects G92
<b>Lesson 12-2:</b> Measure with Inches	1. Measure using an inch ruler 88A
<b>Lesson 12-3:</b> Inches, Feet, and Yards	1. Which customary unit of length is appropriate: inches, feet, or yards? GKJ
<b>Lesson 12-4:</b> Measure Length Using Different Customary Units	
<b>Lesson 12-5:</b> Measure with Centimeters	1. Measure using a centimeter ruler 7WA
<b>Lesson 12-6:</b> Centimeters and Meters	1. Which metric unit of length is appropriate? SKH
<b>Lesson 12-7:</b> Measure Length Using Different Metric Units	
<b>Lesson 12-8:</b> Compare Lengths	
<b>Lesson 12-9:</b> Precision	



# Topic 13

## Shapes and Their Attributes

Textbook section	IXL skills
<b>Lesson 13-1:</b> 2-Dimensional Shapes	<ol style="list-style-type: none"> <li>Name the two-dimensional shape 2FK</li> <li>Count sides and vertices EAQ</li> </ol>
<b>Lesson 13-2:</b> Polygons and Angles	<ol style="list-style-type: none"> <li>Select two-dimensional shapes DWL</li> <li>Compare sides and vertices G9N</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Square corners 27M</li> </ul>
<b>Lesson 13-3:</b> Draw 2-Dimensional Shapes	<ol style="list-style-type: none"> <li>Equal sides D6K</li> </ol>
<b>Lesson 13-4:</b> Cubes	<ol style="list-style-type: none"> <li>Cubes K6N</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Name the three-dimensional shape 9E9</li> <li>Count vertices, edges, and faces X72</li> <li>Identify faces of three-dimensional shapes QSR</li> </ul>
<b>Lesson 13-5:</b> Equal Shares	<ol style="list-style-type: none"> <li>Tile a rectangle with squares 2VD</li> <li>Count the number of squares in a rectangle TMY</li> </ol>
<b>Lesson 13-6:</b> Partition Shapes	<ol style="list-style-type: none"> <li>Identify halves, thirds, and fourths 24W</li> <li>Make halves, thirds, and fourths QD2</li> </ol>
<b>Lesson 13-7:</b> Equal Shares, Different Shapes	<ol style="list-style-type: none"> <li>Make halves, thirds, and fourths in different ways 6SG</li> </ol>
<b>Lesson 13-8:</b> Repeated Reasoning	<ol style="list-style-type: none"> <li>Fractions of a whole: modeling word problems JSE</li> </ol>

# Topic 14

## More Addition, Subtraction, and Length

Textbook section	IXL skills
<b>Lesson 14-1:</b> Add and Subtract with Measurements	1. Customary units of length: word problems I BPC  <i>Also consider</i> <ul style="list-style-type: none"><li>• Perimeter of rectangles NEY</li><li>• Perimeter NP9</li><li>• Perimeter: word problems EL7</li></ul>
<b>Lesson 14-2:</b> Find Unknown Measurements	1. Customary units of length: word problems II 28R
<b>Lesson 14-3:</b> Continue to Find Unknown Measurements	1. Metric units of length: word problems KJ5
<b>Lesson 14-4:</b> Add and Subtract on a Number Line	
<b>Lesson 14-5:</b> Use Appropriate Tools	

# Topic 15

## Graphs and Data

Textbook section	IXL skills
<b>Lesson 15-1:</b> Line Plots	1. Interpret line plots HY6
<b>Lesson 15-2:</b> More Line Plots	1. Create line plots F2U
<b>Lesson 15-3:</b> Bar Graphs	1. Convert between bar graphs and tables 6WP 2. Create bar graphs II RGN
<b>Lesson 15-4:</b> Picture Graphs	1. Create pictographs I NM5
<b>Lesson 15-5:</b> Draw Conclusions from Graphs	1. Interpret bar graphs I RPD 2. Interpret pictographs I QDT
<b>Lesson 15-6:</b> Reasoning	1. Interpret bar graphs II 8CH 2. Which bar graph is correct? BMG

# Topic 16

## Step Up to Grade 3

Textbook section	IXL skills
<b>Lesson 16-1:</b> Relate Multiplication and Addition	<ol style="list-style-type: none"> <li>Count equal groups LHS</li> <li>Relate addition and multiplication for equal groups NFF</li> </ol>
<b>Lesson 16-2:</b> Arrays and Properties	<ol style="list-style-type: none"> <li>Write multiplication sentences for arrays LN5</li> <li>Multiplication word problems WMZ</li> </ol>
<b>Lesson 16-3:</b> Division: How Many in Each Group?	<ol style="list-style-type: none"> <li>Divide by counting equal groups MTV</li> <li>Write division sentences for groups VGQ</li> </ol>
<b>Lesson 16-4:</b> Division: How Many Equal Groups?	<ol style="list-style-type: none"> <li>Divide using repeated subtraction M2W</li> <li>Division word problems 2CW</li> </ol>
<b>Lesson 16-5:</b> Use Partial Sums to Add	<ol style="list-style-type: none"> <li>Add three-digit numbers - without regrouping Y2U</li> </ol>
<b>Lesson 16-6:</b> Use Regrouping to Add	<ol style="list-style-type: none"> <li>Add three-digit numbers - with regrouping 7G7</li> </ol>
<b>Lesson 16-7:</b> Use Partial Differences to Subtract	<ol style="list-style-type: none"> <li>Subtract three-digit numbers - without regrouping EFL</li> </ol>
<b>Lesson 16-8:</b> Use Regrouping to Subtract	<ol style="list-style-type: none"> <li>Subtract three-digit numbers - with regrouping E8A</li> </ol>
<b>Lesson 16-9:</b> Partition Regions into Equal Parts	<ol style="list-style-type: none"> <li>Equal parts H5R</li> <li>Identify the unit fraction 8HR</li> </ol>
<b>Lesson 16-10:</b> Fractions and Regions	<ol style="list-style-type: none"> <li>Identify the fraction HVG</li> <li>Which shape illustrates the fraction? PTH</li> </ol>