



IXL Skill Alignment

2nd grade alignment for enVision Mathematics Florida
B.E.S.T.



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Topic 1

Add and Subtract with Facts to 20

Textbook section	IXL skills
Lesson 1-1: Count On and Turn-Around Facts	<ol style="list-style-type: none"> 1. Add in any order ZER 2. Add by counting on - sums to 20 9SA 3. Related addition facts YDX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Write addition sentences to describe pictures - sums to 10 T2B • Which addition sentence is true? - sums to 20 GMN
Lesson 1-2: Add Doubles and Near Doubles	<ol style="list-style-type: none"> 1. Add doubles 8Z7 2. Add doubles - complete the sentence S46 3. Add near doubles A8U <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add doubles using models S57
Lesson 1-3: Make a 10 to Add	<ol style="list-style-type: none"> 1. Use ten frames to add S6F 2. Make ten to add YJE 3. Add one-digit numbers - sums to 20 5C6
Lesson 1-4: Addition Fact Patterns	<ol style="list-style-type: none"> 1. Ways to make a number - addition sentences up to 10 BZS 2. Ways to make a number with addition - sums to 20 9NA 3. Complete the addition sentence - sums to 20 MQX
Lesson 1-5: Add with Facts to 20	<ol style="list-style-type: none"> 1. Addition input/output tables - sums to 20 GLB
Lesson 1-6: Count On and Count Back to Subtract	<ol style="list-style-type: none"> 1. Subtract by counting on - up to 20 NLN 2. Subtract by counting back - up to 20 AY2 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Addition sentences using number lines - sums to 20 FXF

Lesson 1-7: Make a 10 to Subtract

- Subtraction sentences using number lines - up to 20 GUZ
1. Use ten frames to subtract C48
 2. Subtract a one-digit number from a two-digit number up to 20 HSU
 3. Use ten to subtract ZUW

Lesson 1-8: Think Addition to Subtract

1. Relate addition and subtraction sentences PRS
2. Complete the subtraction sentence - up to 20 QS5

Also consider

- Related subtraction facts P6Y
- Fact families NSN
- Which subtraction sentence is true? - up to 20 UY2

Lesson 1-9: Add and Subtract with Facts to 20

1. Addition and subtraction - up to 20 QQP
2. Which addition or subtraction sentence is true? - up to 20 KP6

Also consider

- Balance addition and subtraction equations - up to 20 F99

Lesson 1-10: Add or Subtract to Solve Real-World Problems

1. Addition sentences for word problems - sums to 20 VSF
2. Subtraction sentences for word problems - up to 20 AZ8
3. Addition and subtraction word problems - up to 20 75R

Also consider

- Use models to solve addition and subtraction word problems - up to 20 FXU
- Match word problems to addition and subtraction sentences - up to 20 ZCU

Lesson 1-11: Discuss Math Thinking with Others

1. Ways to make a number using addition and subtraction - up to 20 PD7
2. Write addition sentences to describe pictures - sums to 20 L2M



3. Write subtraction sentences to describe pictures
- up to 18 F8W

Topic 2

Foundations for Multiplication: Work with Equal Groups

Textbook section	IXL skills
Lesson 2-1: Even and Odd Numbers	<ol style="list-style-type: none"> 1. Even or odd number of shapes - up to 20 54Z 2. Identify even and odd numbers - up to 20 NLH 3. Addition sentences for even and odd numbers 7PR <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Even or odd numbers on number lines S8E
Lesson 2-2: Represent Even and Odd Numbers	<ol style="list-style-type: none"> 1. Identify even and odd numbers - up to 100 RGJ 2. Select even and odd numbers - up to 100 JLX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Which even or odd number comes before or after? CJK
Lesson 2-3: Skip Count and Find Patterns	<ol style="list-style-type: none"> 1. Skip-count by twos LK2 2. Skip-counting sequences - count by twos YJ8
Lesson 2-4: Use Arrays to Find Totals	<ol style="list-style-type: none"> 1. Identify repeated addition for arrays - sums to 10 F7E 2. Write addition sentences for arrays - sums to 10 Z7N 3. Write addition sentences for arrays in two ways CXL
Lesson 2-5: Make Arrays to Find Totals	<ol style="list-style-type: none"> 1. Identify repeated addition for arrays - sums to 25 EUS 2. Solve word problems with arrays using repeated addition 8R9
Lesson 2-6: Represent Problems in Multiple Ways	<ol style="list-style-type: none"> 1. Write addition sentences for arrays - sums to 25 W8T

Topic 3

Add with Sums to 100

Textbook section	IXL skills
Lesson 3-1: Add Tens and Ones Using a Hundred Chart	1. One more or ten more L2P
Lesson 3-2: Add Tens and Ones Using a Number Line	1. Use number lines to add two-digit numbers HBW <i>Also consider</i> • Add a multiple of 10 to a two-digit number NPQ
Lesson 3-3: Break Apart Numbers to Add	1. Break apart a one-digit number to add YBH 2. Break apart a two-digit number to add - sums to 100 YXZ
Lesson 3-4: Break Apart Numbers and Add Using Mental Math	1. Ways to make a number using addition S5E <i>Also consider</i> • Addition input/output tables - up to two digits 5NL
Lesson 3-5: Add Using Compensation	1. Use compensation to add on a number line - up to two digits WNM 2. Use compensation to add - up to two digits SCF
Lesson 3-6: Solve One-Step and Two-Step Real-World Problems	1. Addition word problems - up to two digits XAT <i>Also consider</i> • Addition word problems - three one-digit numbers VJ9
Lesson 3-7: Round Whole Numbers to the Nearest 10	1. Round to the nearest ten HNL
Lesson 3-8: Assess the Reasonableness of Solutions	1. Estimate sums by rounding to the nearest ten: word problems ANP

Topic 4

More Adding with Sums to 100

Textbook section	IXL skills
<p>Lesson 4-1: Add 2-Digit Numbers Using Models</p> <p>Lesson 4-2: Continue to Add 2-Digit Numbers Using Models</p>	<ol style="list-style-type: none"> 1. Use models to add a two-digit and a one-digit number - without regrouping QC9 2. Use models to add two-digit numbers - without regrouping GK2 3. Use models to add a two-digit and a one-digit number - with regrouping URQ 4. Use models to add two-digit numbers - with regrouping QL8
<p>Lesson 4-3: Add with Partial Sums</p> <p>Lesson 4-4: Add Using Mental Math and Partial Sums</p>	<ol style="list-style-type: none"> 1. Use place value to add two-digit numbers - without regrouping NPN 2. Add two-digit numbers without regrouping - sums to 100 TX5
<p>Lesson 4-5: Add with Sums to 100: Choose a Method</p>	<ol style="list-style-type: none"> 1. Add two-digit numbers - sums to 100 PLW 2. Complete the addition sentence - up to two digits CZK
<p>Lesson 4-6: Solve One-Step and Two-Step Real-World Problems</p>	<ol style="list-style-type: none"> 1. Addition word problems - three numbers up to two digits each 52T 2. Addition word problems - four numbers up to two digits each YSX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add three numbers up to two digits each YTH • Add four numbers up to two digits each DP6
<p>Lesson 4-7: Complete Tasks with Mathematical Fluency</p>	<ol style="list-style-type: none"> 1. Add two-digit numbers vertically - sums to 100 LZJ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Write the addition sentence - up to two digits 5FM

Topic 5

Subtract with Numbers to 100

Textbook section	IXL skills
Lesson 5-1: Subtract Tens and Ones Using a Hundred Chart	1. One less or ten less LQQ
Lesson 5-2: Count Back to Subtract on a Number Line	1. Use number lines to subtract two-digit numbers BA7 <i>Also consider</i> • Subtract a multiple of 10 from a two-digit number 2Q6
Lesson 5-3: Add up to Subtract Using a Number Line	1. Count on to subtract two-digit numbers ZV7 <i>Also consider</i> • Relate addition and subtraction sentences - up to two digits 7NX
Lesson 5-4: Break Apart Numbers to Subtract	1. Break apart a one-digit number to subtract P2C
Lesson 5-5: Subtract Using Compensation	1. Use compensation to subtract on a number line - up to two digits NFC 2. Use compensation to subtract - up to two digits 6TE
Lesson 5-6: Solve One-Step and Two-Step Real-World Problems	1. Subtraction word problems - up to two digits UFU
Lesson 5-7: Assess the Reasonableness of Solutions	1. Estimate differences by rounding to the nearest ten: word problems 7Q2 2. 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

More Subtraction with Numbers to 100

Textbook section	IXL skills
Lesson 6-1: Subtract 1-Digit Numbers Using Models	<ol style="list-style-type: none"> 1. Use models to subtract a one-digit number from a two-digit number - without regrouping WKG 2. Use models to subtract a one-digit number from a two-digit number - with regrouping MU8
Lesson 6-2: Subtract 2-Digit Numbers Using Models	<ol style="list-style-type: none"> 1. Use models to subtract two-digit numbers - without regrouping SKW 2. Use models to subtract two-digit numbers - with regrouping EVB
Lesson 6-3: Subtract Using Partial Differences	<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
Lesson 6-4: Continue to Subtract Using Partial Differences	<ol style="list-style-type: none"> 1. Use place value to subtract two-digit numbers - without regrouping 6C6 2. Use place value to subtract two-digit numbers - with regrouping Y7U 3. Break apart a two-digit number to subtract 9WW <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtract two-digit numbers - without regrouping R8C • Subtract two-digit numbers - with regrouping TWE
Lesson 6-5: Subtract with Numbers to 100: Choose a Method	<ol style="list-style-type: none"> 1. Subtract from two-digit numbers DZH 2. Complete the subtraction sentence - up to two digits YWC
Lesson 6-6: Solve One-Step and Two-Step Real-World Problems	<ol style="list-style-type: none"> 1. Subtraction word problems - two-digit numbers 4K5
Lesson 6-7: Complete Tasks with Mathematical Fluency	<ol style="list-style-type: none"> 1. Use models to solve word problems involving subtraction situations - up to 100 DHA

Topic 7

Solve Problems Involving Addition and Subtraction

Textbook section	IXL skills
Lesson 7-1: Represent Addition and Subtraction Problems	<ol style="list-style-type: none"> 1. Use models to solve addition and subtraction word problems - up to 100 <small>KT7</small> 2. Use models to solve comparison word problems - up to 100 <small>EQM</small> 3. Addition and subtraction word problems - up to 100 <small>MEP</small>
Lesson 7-2: Mixed Practice: Solve Addition and Subtraction Problems	
Lesson 7-3: Continue Practice with Addition and Subtraction Problems	
Lesson 7-4: Solve Two-Step Real-World Problems	<ol style="list-style-type: none"> 1. Two-step addition and subtraction word problems - up to 20 <small>H55</small>
Lesson 7-5: Continue to Solve Two-Step Real-World Problems	<ol style="list-style-type: none"> 1. Two-step addition and subtraction word problems - up to 100 <small>7P8</small>
Lesson 7-6: Decide If an Equation Is True	<ol style="list-style-type: none"> 1. Which sign (+ or -) makes the number sentence true? - up to 100 <small>K7X</small> <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Complete the addition or subtraction sentence - up to 100 <small>MTW</small>
Lesson 7-7: Make True Equations	<ol style="list-style-type: none"> 1. Balance addition equations - up to two digits <small>NH7</small> 2. Balance subtraction equations - up to two digits <small>SRC</small>
Lesson 7-8: Represent Problems in Multiple Ways	<ol style="list-style-type: none"> 1. Addition and subtraction word problems: up to 100 - without regrouping <small>PZN</small> 2. Write the addition or subtraction sentence - up to two digits <small>JHU</small>

Topic 8

Understand Fractions: Partition Shapes into Equal-Sized Parts

Textbook section	IXL skills
Lesson 8-1: Partition Shapes into Equal-Sized Parts	1. Make halves, thirds, and fourths QD2
Lesson 8-2: Name Unit Fractions	1. Identify a half, a third, and a fourth PZG
Lesson 8-3: More Naming Fractions	1. Which shape illustrates the fraction? PTH
Lesson 8-4: Equal-Sized Parts, Different Shapes	1. Make halves, thirds, and fourths in different ways 6SG 2. Identify a half, a third, and a fourth PZG
Lesson 8-5: Participate in Effortful Learning	1. Fractions of a whole: modeling word problems JSE

Topic 9

Work with Time and Money

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

Also consider

- Elapsed time word problems: find the end time UDE
- Elapsed time word problems: find the end time or the elapsed time LQD

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

Also consider

- Elapsed time word problems: find the elapsed time L9C
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Lesson 9-8: A.M. and P.M.

Topic 10

Place Value: Numbers to 1,000

Textbook section	IXL skills
Lesson 10-1: Understand Hundreds	1. Convert between place values - ones, tens, and hundreds M6X <i>Also consider</i> <ul style="list-style-type: none"> Count by tens and hundreds Z8G
Lesson 10-2: Models and 3-Digit Numbers	1. Place value models - up to hundreds PBX 2. Identify a digit up to the hundreds place 45U
Lesson 10-3: Name Place Values	1. Value of a digit - up to hundreds BDF 2. Convert to/from a number - up to hundreds HUX
Lesson 10-4: Read and Write 3-Digit Numbers	1. Convert between standard and expanded form DZB 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
Lesson 10-5: Different Ways to Name The Same Number	1. Regroup hundreds, tens, and ones - ways to make a number F6P
Lesson 10-6: Plot Numbers on a Number Line	1. Number lines - up to 1,000 KFQ
Lesson 10-7: Compare Numbers Using Place Value	1. Comparing numbers up to 1,000 XF9
Lesson 10-8: Plot, Order, and Compare Numbers	1. Put numbers up to 1,000 in order 3N2
Lesson 10-9: Use Patterns and Structure to Make Connections	1. Count forward and backward by fives, tens, and hundreds R5A 2. Skip-counting sequences: fives, tens, and hundreds problems U8A

Topic 11

Add and Subtract with Numbers to 1,000

Textbook section	IXL skills
Lesson 11-1: 10 More and 100 More: Use Place-Value Models	
Lesson 11-2: Add Using a Number Line	<ol style="list-style-type: none"> 1. Use number lines to add three-digit numbers CVM
Lesson 11-3: Add Using Place-Value Models and Drawings	<ol style="list-style-type: none"> 1. Use models to add three-digit numbers - without regrouping Q7V 2. Use models to add three-digit numbers - with regrouping KUG
Lesson 11-4: Continue to Add Using Models and Place Value	<p><i>Also consider</i></p> <ul style="list-style-type: none"> • Break apart a three-digit number to add M7S
Lesson 11-5: Add Using Place Value and Partial Sums	<ol style="list-style-type: none"> 1. Use expanded form to add three-digit numbers XTU 2. Add three-digit numbers vertically 7DG <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Addition with three-digit numbers ETW
Lesson 11-6: Practice Adding with 2-Digit and 3-Digit Numbers	<ol style="list-style-type: none"> 1. Addition word problems - up to three digits UV2 2. Complete the addition sentence - up to three digits R5W
Lesson 11-7: Discuss Math Thinking with Others	<ol style="list-style-type: none"> 1. Write the addition sentence - up to three digits PQT 2. Balance addition equations - up to three digits 5U9
Lesson 11-8: 10 Less and 100 Less: Use Place-Value Models	<ol style="list-style-type: none"> 1. Subtract a multiple of 10 or 100 from a three-digit number VVM
Lesson 11-9: Subtract Using a Number Line	<ol style="list-style-type: none"> 1. Break apart a three-digit number to subtract CL8 2. Use number lines to subtract three-digit numbers C75

Lesson 11-10: Subtract Using Place-Value Models and Drawings

1. Use models to subtract from three-digit numbers - without regrouping 55T
2. Use models to subtract from three-digit numbers - with regrouping GHQ

Lesson 11-11: Subtract Using Place Value and Partial Differences

1. Use expanded form to subtract three-digit numbers - without regrouping SXB
2. Use expanded form to subtract three-digit numbers - with regrouping R9F

Lesson 11-12: Practice Subtracting with 2-Digit and 3-Digit Numbers

1. Subtraction word problems - up to three digits ZMA
2. Complete the subtraction sentence - up to three digits MDY

Also consider

- Write the subtraction sentence - up to three digits 5B3
- Balance subtraction equations - up to three digits LSU

Topic 12

Measuring Length

Textbook section	IXL skills
Lesson 12-1: Estimate Length	<ol style="list-style-type: none"> 1. Measure length with objects G92 2. Which customary unit of length is appropriate: inches or feet? 5XG 3. Estimate lengths with inches, feet, and yards QQA <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Measure with different customary units: inches, feet, and yards 5VA
Lesson 12-2: Measure with Inches	<ol style="list-style-type: none"> 1. Measure using an inch ruler 88A
Lesson 12-3: Inches, Feet, and Yards	<ol style="list-style-type: none"> 1. Which customary unit of length is appropriate: inches, feet, or yards? GKJ
Lesson 12-4: Measure Length Using Different Customary Units	<ol style="list-style-type: none"> 1. Choose the best measuring tool: customary units of length 8SB
Lesson 12-5: Measure with Centimeters	<ol style="list-style-type: none"> 1. Measure using a centimeter ruler 7WA
Lesson 12-6: Centimeters and Meters	<ol style="list-style-type: none"> 1. Which metric unit of length is appropriate? SKH 2. Estimate lengths with centimeters and meters 5BF
Lesson 12-7: Measure Length Using Different Units	<ol style="list-style-type: none"> 1. Choose the best measuring tool: metric units of length 26F 2. Measure with different metric units FWF
Lesson 12-8: Compare Lengths Using Customary Units	<ol style="list-style-type: none"> 1. Measure to compare length in inches DMP
Lesson 12-9: Compare Lengths Using Metric Units	<ol style="list-style-type: none"> 1. Measure to compare length in centimeters YRD
Lesson 12-10: Solve One-Step Real-World Problems Involving Measurement	<ol style="list-style-type: none"> 1. Customary units of length: word problems GSF <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Metric units of length: word problems KJ5



Lesson 12-11: Solve Two-Step Real-World Problems
Involving Measurement

Lesson 12-12: Apply Math to Real-World Contexts

Identify, Analyze, and Describe Two-Dimensional (2-D) Figures and Their Attributes

Textbook section	IXL skills
Lesson 13-1: Identify 2-Dimensional (2-D) Figures	<ol style="list-style-type: none">1. Name polygons: up to 8 sides M5Z2. Classify polygons: up to 8 sides T2J3. Count sides and vertices EAQ
Lesson 13-2: Categorize Polygons	<ol style="list-style-type: none">1. Compare sides and vertices G9N2. Square corners 27M
Lesson 13-3: Draw 2-Dimensional (2-D) Figures	<ol style="list-style-type: none">1. Draw polygons 5LU
Lesson 13-4: Identify Lines of Symmetry	<ol style="list-style-type: none">1. Symmetry PG92. Identify lines of symmetry V2V
Lesson 13-5: Understand Perimeter	<ol style="list-style-type: none">1. Find the perimeter of a rectangle using centimeter cubes C5Y2. Perimeter of rectangles NEY
Lesson 13-6: Find Perimeter	<ol style="list-style-type: none">1. Perimeter NP9
Lesson 13-7: Participate in Effortful Learning	<ol style="list-style-type: none">1. Perimeter: word problems EL7

Topic 14

Collect, Graph, and Interpret Data

Textbook section	IXL skills
Lesson 14-1: Collect and Represent Data	1. Which tally chart is correct? 9DN 2. Interpret tally charts 2VQ <i>Also consider</i> <ul style="list-style-type: none"> Record data in tables 89J Interpret data in tables PBZ
Lesson 14-2: Make Pictographs	1. Create picture graphs NM5 2. Create scaled picture graphs P2T
Lesson 14-3: Interpret Pictographs	1. Interpret picture graphs QDT 2. Interpret scaled picture graphs YL6
Lesson 14-4: Make Bar Graphs	1. Create bar graphs 6KD 2. Create bar graphs II RGN 3. Create bar graphs - up to 100 JB9
Lesson 14-5: Interpret Bar Graphs	1. Interpret bar graphs I RPD 2. Interpret bar graphs II 8CH 3. Use bar graphs to answer questions 22R
Lesson 14-6: Apply Math to Real-World Contexts	1. Convert between bar graphs and tables 6WP 2. Use bar graphs to solve problems SVS