



IXL Skill Alignment

1st Grade alignment for Math Expressions Common Core



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Unit 1

Partners and Number Patterns Through 10

Big Idea 1: Numbers Through 10

Textbook section	IXL skills
1-1: Discuss Numbers 1-10	1. Counting review - up to 10 A6X
1-2: Visualize Numbers as a 5-Group and Ones	1. Show numbers on ten frames - up to 10 8ET 2. Addition sentences up to 10: what does the model show? F9B

Big Idea 2: Patterns with Partners through 10

Textbook section	IXL skills
1-3: Partners of 2 through 5	1. Make a number using addition - sums up to 5 8YR 2. Complete the addition sentence - make 5 WBV <i>Also consider</i> <ul style="list-style-type: none"> • Adding 0 UFN • Adding 1 HRU • Subtracting 1 HAQ
1-4: Partners of 6	1. Complete the addition sentence - make 6 BW8 <i>Also consider</i> <ul style="list-style-type: none"> • Add doubles DFT • Subtract zero and all PEQ
1-5: Partners of 7	1. Complete the addition sentence - make 7 SMG <i>Also consider</i> <ul style="list-style-type: none"> • Adding 2 5ZD • Subtracting 2 FP5
1-6: Partners of 8	1. Complete the addition sentence - make 8 FNB

Also consider

- Subtract doubles LHZ

1-7: Partners of 9

1. Complete the addition sentence - make 9 FNN

1-8: Partners of 10

1. Complete the addition sentence - make ten 5MN

1-9: Focus on Mathematical Practices

1. Ways to make a number - addition sentences up to 10 K48
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Unit 2

Addition and Subtraction Strategies

Big Idea 1: Represent Addition Situations

Textbook section	IXL skills
2-1: Represent Addition	1. Add with pictures - sums up to 10 H6S
2-2: Addition with Circle Drawings	1. Add with cubes - sums up to 10 E8D
2-3: Addition Equations	1. Addition sentences up to 10: which model matches? E5U 2. Addition sentences up to 10: what does the model show? F9B <i>Also consider</i> <ul style="list-style-type: none"> Addition sentences using number lines - sums up to 10 UWW
2-4: Addition Equations and Stories	1. Addition word problems with pictures - sums up to 10 F6L <i>Also consider</i> <ul style="list-style-type: none"> Turn words into an addition sentence - sums up to 10 5YU

Big Idea 2: Solve Addition Equations

Textbook section	IXL skills
2-5: Explore Solution Methods	1. Addition facts - sums up to 10 WUL
2-6: Addition Strategies: Counting On	1. Addition facts without zero - sums up to 10 RUF
2-7: Count On from the Greater Number	1. Addition facts - sums up to 10 WUL
2-8: Addition Game: Unknown Totals	1. Addition word problems - sums up to 10 P6D
2-9: Practice Counting On	1. Addition sentences up to 10: what does the model show? F9B

Also consider

- Make a number using addition - sums up to 10 VSE

Big Idea 3: Solve Subtraction Equations

Textbook section	IXL skills
2-10: Represent Subtraction	1. Subtract with pictures - up to 10 Y2Z <i>Also consider</i> <ul style="list-style-type: none"> • Subtraction sentences up to 10: which model matches? MGG
2-11: Subtraction with Drawings and Equations	1. Subtraction sentences up to 10: what does the model show? 2AY <i>Also consider</i> <ul style="list-style-type: none"> • Subtraction sentences using number lines - up to 10 LRN • Turn words into a subtraction sentence - up to 10 ZJA
2-12: Practice with Subtraction	1. Subtract with cubes - up to 10 5JT
2-13: Generate Subtraction Problems	1. Subtraction sentences for word problems - up to 10 R2J <i>Also consider</i> <ul style="list-style-type: none"> • Subtraction sentences: true or false? XRG

Big Idea 4: Equation Exploration

Textbook section	IXL skills
2-14: Relate Addition and Subtraction	1. Relate addition and subtraction sentences - up to 10 TBD 2. Addition and subtraction facts - up to 10 V7A
2-15: Mixed Practice with Equations	1. Addition and subtraction sentences for word problems - up to 10 M6F
2-16: Focus on Mathematical Practices	1. Addition and subtraction word problems with pictures - up to 10 CJ9

Unit 3

Unknown Numbers in Addition and Subtraction

Big Idea 1: Counting On with Addition Situations

Textbook section	IXL skills
3-1: Explore Unknowns	<ul style="list-style-type: none"> <i>Coming soon:</i> Ways to make a number up to 10
3-2: Problems with Unknown Partners	
3-3: Solve Equations with Unknown Partners	1. Complete the addition sentence - sums up to 10 <small>N2N</small>
3-4: Addition Game: Unknown Partners	
3-5: Practice with Unknown Partners	1. Complete the addition sentence - sums up to 10 <small>VYU</small>

Big Idea 2: Counting On with Subtraction Situations

Textbook section	IXL skills
3-6: Subtraction Strategies	1. Subtraction word problems - up to 10 <small>7NL</small> <i>Also consider</i> <ul style="list-style-type: none"> Relate addition and subtraction sentences <small>DM2</small>
3-7: Subtraction Stories and Games	1. Subtraction sentences for word problems - up to 10 <small>R2J</small>
3-8: Practice with Subtraction Stories	1. Which sign makes the number sentence true? - up to 10 <small>BAV</small> <i>Also consider</i> <ul style="list-style-type: none"> Subtraction sentences: which is true? <small>A2N</small>

Big Idea 3: Mixed Story Problems

Textbook section	IXL skills
3-9: Relate Addition and Subtraction Situations	1. Addition and subtraction - ways to make a number up to 10 FAE
3-10: Solve Mixed Problems	1. Addition and subtraction facts - up to 10 V7A
3-11: Practice with Mixed Problems	1. Addition and subtraction word problems - up to 10 DWE
3-12: Focus on Mathematical Practices	1. Addition and subtraction sentences: which is true? QVL

Unit 4

Place Value Concepts

Big Idea 1: Tens and Teens

Textbook section	IXL skills
4-1: Introduction to Tens Groupings	1. Skip-counting by tens N89
4-2: Explore Teen Numbers	1. Counting tens and ones - up to 20 GU6 2. Write numbers as tens and ones up to 20 5HL 3. Addition sentences for word problems - sums up to 20 N5N
4-3: Represent and Compare Teen Numbers	1. Place value models up to 20 YPB 2. Compare numbers up to 20 using symbols Z53
4-4: Visualize Teen Addition	1. Make ten to add RNZ 2. Addition facts - sums up to 20 6TM
4-5: Teen Addition Strategies	1. Make a number using addition - sums up to 20 UMX <i>Also consider</i> <ul style="list-style-type: none"> Addition word problems - sums up to 20 KY5
4-6: Investigate Doubles	1. Add doubles DFT 2. Add using doubles plus one XAY 3. Add using doubles minus one FRN <i>Also consider</i> <ul style="list-style-type: none"> Add doubles - with models HRW Add doubles - complete the sentence TAZ

Big Idea 2: Place Value to 100

Textbook section	IXL skills
4-7: Understand Tens and Ones	1. Place value models up to 100 5CG <i>Also consider</i> <ul style="list-style-type: none"> Write numbers as tens and ones 7WF
4-8: Integrate Tens and Ones	1. Writing numbers with digits and words - up to 20 LWV
4-9: Practice Grouping Ones into Tens	1. Use models to add a multiple of ten and a one-digit number FKG 2. Use models to add a two-digit and a one-digit number - without regrouping MUX 3. Use models to add a two-digit and a one-digit number - with regrouping 8RL <i>Also consider</i> <ul style="list-style-type: none"> Regroup tens and ones - ways to make a number JKT Regroup tens and ones 5LV Convert between tens and ones - multiples of 10 VH7
4-10: Add with Groups of Ten	1. Counting tens and ones - up to 99 EAN
4-11: Practice with Tens and Ones	1. Place value models up to 100 5CG
4-12: Use Place Value to Compare Numbers	1. Compare numbers up to 100 using symbols FU5 <i>Also consider</i> <ul style="list-style-type: none"> Compare numbers up to 100 using words BWC

Big Idea 3: Addition Strategies

Textbook section	IXL skills
4-13: Add Tens or Ones	1. Add two multiples of ten EMK <i>Also consider</i> <ul style="list-style-type: none"> One or ten more CRB

4-14: Mixed Addition with Tens and Ones

1. Add a multiple of ten and a one-digit number DZN

4-15: Counting On Strategy: 2-Digit Numbers

1. Add a one-digit number to a two-digit number - without regrouping 5VX
2. Add a one-digit number to a two-digit number - with regrouping BF6

4-16: Practice with 2-Digit Numbers

1. Add a one-digit number to a two-digit number - without regrouping - sums to 40 SJK
2. Add a one-digit number to a two-digit number - with regrouping - sums to 40 LSY

4-17: 2-Digit Addition Games

1. Use models to add a multiple of ten and a two-digit number CSV

4-18: Focus on Mathematical Practices

1. Addition word problems - one-digit plus two-digit numbers 88Q
2. Addition sentences for word problems - one-digit plus two-digit numbers 5LZ

Unit 5

Place Value Solutions

Big Idea 1: Teen Solution Methods

Textbook section	IXL skills
5-1: Unknown Partners with Teen Totals	1. Complete the addition sentence - sums up to 20 5BP
5-2: Subtraction with Teen Numbers	1. Subtraction facts - up to 20 PV5 <i>Also consider</i> <ul style="list-style-type: none"> • Make a number using subtraction - up to 20 JJS • Related subtraction facts XZB • Subtraction sentences: true or false? XRG • Subtraction sentences: which is true? A2N
5-3: Mixed Practice with Teen Problems	1. Subtraction word problems - up to 20 9Q9 <i>Also consider</i> <ul style="list-style-type: none"> • Which sign makes the number sentence true? 7JY
5-4: Small Group Practice with Teen Problems	1. Addition and subtraction word problems - up to 20 VJR 2. Addition and subtraction facts - up to 20 C78 <i>Also consider</i> <ul style="list-style-type: none"> • Addition and subtraction - ways to make a number Q8E
5-5: Teen Problems with Various Unknowns	1. Complete the addition or subtraction sentence - up to 20 YKL <i>Also consider</i> <ul style="list-style-type: none"> • Subtraction sentences for word problems - up to 20 LJA
5-6: Problems with Three Addends	1. Add three numbers - word problems Z7S 2. Add three numbers - make ten 8B2

Also consider

- Add three numbers RL2

Big Idea 2: Find Patterns and Relationships

Textbook section	IXL skills
5-7: Count with Groups of 10	<ol style="list-style-type: none">1. Counting tens and ones - up to 99 EAN <p><i>Also consider</i></p> <ul style="list-style-type: none">• Count on ten frames - up to 40 WTZ• Counting - up to 100 SUW• Estimate to the nearest ten 9G2
5-8: Numbers Through 120	<ol style="list-style-type: none">1. Hundred chart 64Q2. Ten more or less CLA3. Counting forward - up to 120 VZR
5-9: Add and Subtract Tens	<ol style="list-style-type: none">1. Add a multiple of ten and a two-digit number LNL2. Subtract multiples of 10 9DD <p><i>Also consider</i></p> <ul style="list-style-type: none">• Use models to add a multiple of ten and a two-digit number CSV
5-10: Add and Subtract Multiples of 10	<ol style="list-style-type: none">1. Add and subtract tens J6G <p><i>Also consider</i></p> <ul style="list-style-type: none">• Subtract a multiple of 10 PYR
5-11: Focus on Mathematical Practices	<ol style="list-style-type: none">1. Addition and subtraction sentences for word problems - up to 20 VJ2

Unit 6

Comparisons and Data

Big Idea 1: Represent and Compare Data

Textbook section	IXL skills
6-1: Explore Representing Data	1. Which tally chart is correct? XRL 2. Interpret tally charts LBV
6-2: Organize Categorical Data	
6-3: Use Stair Steps to Represent Data	1. Interpret picture graphs with 2 categories QNZ
6-4: Data Sets with Three Categories	1. Interpret picture graphs with 3 categories VVC
6-5: Data Collecting	1. Create picture graphs 8F5

Big Idea 2: Compare Problem Types

Textbook section	IXL skills
6-6: Introduce Comparison Bars	1. Addition word problems - sums up to 20 KY5
6-7: Comparison Bars and Comparing Language	1. Subtraction word problems - up to 20 9Q9
6-8: Solve <i>Compare</i> Problems	1. Addition and subtraction word problems - up to 20 VJR

Unit 7

Geometry, Measurement, and Equal Shares

Big Idea 1: Tell and Write Time

Textbook section	IXL skills
7-1: Introduction to Time	1. Match analog clocks and times: to the hour S75
7-2: Tell and Write Time in Hours	1. Match analog and digital clocks: to the hour 7B8
7-3: Time in Our Day	1. Read clocks and write times: to the hour 63H 2. Times of everyday events BXM <i>Also consider</i> <ul style="list-style-type: none"> A.M. or P.M. 7KN
7-4: Tell and Write Time in Half-Hours	1. Match analog clocks and times 5FJ 2. Match analog and digital clocks 7N3
7-5: Practice Telling and Writing Time	1. Read clocks and write times UJM <i>Also consider</i> <ul style="list-style-type: none"> Match digital clocks and times KKM Compare clocks VRW Time and clocks: word problems NPR

Big Idea 2: Shapes and Equal Shares

Textbook section	IXL skills
7-6: Squares and Other Rectangles	1. Identify squares and other rectangles R8E <i>Also consider</i> <ul style="list-style-type: none"> Square corners YSG Count sides and corners VUQ Equal sides QT9
7-7: Triangles and Circles	1. Name the two-dimensional shape MRF 2. Select two-dimensional shapes HV6

7-8: Equal Shares

1. Identify halves and fourths WVJ
2. Make halves and fourths X5A

7-9: Compose 2-Dimensional Shapes

1. Compose two-dimensional shapes YEU

7-10: 3-Dimensional Shapes

1. Name the three-dimensional shape 26D
2. Select three-dimensional shapes J8A
3. Shapes of everyday objects I ZCN
4. Shapes of everyday objects II LFC

7-11: Compose 3-Dimensional Shapes

1. Count vertices, edges, and faces Z42
2. Identify shapes traced from solids NXF
3. Identify faces of three-dimensional shapes RPX

Big Idea 3: Measure and Order by Length**Textbook section****IXL skills****7-12:** Order by Length

1. Compare objects: length and height D7U

7-13: Measure with Length Units

1. Measure length with objects GWG
2. Measure length with cubes FBV

7-14: Focus on Mathematical Practices

1. Make halves and fourths in different ways YJR

Also consider

- Measure height with cubes BLM

Unit 8

Two-Digit Addition

Big Idea: Add 2-Digit Numbers

Textbook section	IXL skills
8-1: Explore 2-Digit Addition	1. Use models to add two-digit numbers - with regrouping CDU <i>Also consider</i> <ul style="list-style-type: none"> Use models to add two-digit numbers - without regrouping GJJ
8-2: Methods of 2-Digit Addition	1. Add two-digit numbers with regrouping - sums to 40 Y8V <i>Also consider</i> <ul style="list-style-type: none"> Add two-digit numbers without regrouping - sums to 40 L7X
8-3: Addition of Tens and Ones	1. Add two-digit numbers with regrouping - sums to 100 QHX <i>Also consider</i> <ul style="list-style-type: none"> Add two-digit numbers without regrouping - sums to 100 VZW
8-4: Discuss Solution Methods	1. Ways to make a number using addition NTN
8-5: Practice 2-Digit Addition	1. Addition word problems - up to two digits T9S
8-6: Focus on Mathematical Practices	1. Write the addition sentence - up to two digits 8WT