



# IXL Skill Alignment

3rd Grade alignment for Math in Focus



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# Chapter 1

## Numbers to 10,000

Textbook section	IXL skills
<b>Lesson 1.1:</b> Counting to 10,000	<ol style="list-style-type: none"><li>1. Place value models up to thousands DDS</li><li>2. Write numbers in words 2GW</li></ol>
<b>Lesson 1.2:</b> Place Value	<ol style="list-style-type: none"><li>1. Value of a digit DHS</li><li>2. Convert between standard and expanded form: up to thousands TU2</li><li>3. Convert to/from a number KSN</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Place value names up to thousands GEV</li><li>• Convert between place values U7F</li></ul>
<b>Lesson 1.3:</b> Comparing and Ordering Numbers	<ol style="list-style-type: none"><li>1. Compare numbers: up to 10,000 D2N</li><li>2. Order numbers: up to 10,000 M5T</li></ol>
<b>Lesson 1.4:</b> Rounding Numbers to the Nearest Ten	<ol style="list-style-type: none"><li>1. Round to the nearest ten using a number line 8X3</li></ol>
<b>Lesson 1.5:</b> Rounding Numbers to the Nearest Hundred	<ol style="list-style-type: none"><li>1. Round using a number line - nearest ten or hundred 6ST</li><li>2. Rounding - nearest ten or hundred only Q65</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Rounding puzzles SFM</li></ul>

# Chapter 2

## Addition Within 10,000

Textbook section	IXL skills
<b>Lesson 2.1:</b> Addition Problems	<ol style="list-style-type: none"> <li>1. Add three or more one-digit numbers WXS</li> <li>2. Even or odd: arithmetic rules L63</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Even or odd U9Q</li> </ul>
<b>Lesson 2.2:</b> Mental Addition	<ol style="list-style-type: none"> <li>1. Use compensation to add: sums up to 200 3M9</li> <li>2. Add two-digit numbers - sums to 200 GF2</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Use models to add two-digit numbers DJM</li> <li>• Addition word problems - up to two digits Y6C</li> </ul>
<b>Lesson 2.3:</b> Adding Fluently Within 1,000	<ol style="list-style-type: none"> <li>1. Add three-digit numbers: without regrouping 96M</li> <li>2. Add three-digit numbers: with regrouping 9NH</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Use models to add three-digit numbers: without regrouping ZBB</li> </ul>
<b>Lesson 2.4:</b> Adding Without Regrouping	
<b>Lesson 2.5:</b> Adding with Regrouping	<ol style="list-style-type: none"> <li>1. Add two numbers up to four digits P2Q</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Addition up to four digits: fill in the missing digits LPZ</li> </ul>
<b>Lesson 2.6:</b> Real-world Problems: Addition	<ol style="list-style-type: none"> <li>1. Add two numbers up to four digits: word problems CNN</li> <li>2. Add money amounts - word problems BK6</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Add money amounts 4Y5</li> <li>• Estimate sums: word problems WB2</li> </ul>

# Chapter 3

## Subtraction Within 10,000

Textbook section	IXL skills
<b>Lesson 3.1:</b> Mental Subtraction	1. Subtract numbers - up to two digits 9N9
<b>Lesson 3.2:</b> Subtracting Fluently Within 1,000	1. Subtract three-digit numbers: without regrouping NVN 2. Subtract numbers up to three digits EHT  <i>Also consider</i> <ul style="list-style-type: none"> <li>Complete the subtraction sentence: up to three digits MD8</li> </ul>
<b>Lesson 3.3:</b> Subtracting Without Regrouping	1. Subtract four-digit numbers: without regrouping TF9
<b>Lesson 3.4:</b> Subtracting with Regrouping	1. Subtract four-digit numbers: with regrouping GQC 2. Subtract across zeros 93U  <i>Also consider</i> <ul style="list-style-type: none"> <li>Subtraction: fill in the missing digits V63</li> </ul>
<b>Lesson 3.5:</b> Real-world Problems: Subtraction	1. Two-step addition and subtraction word problems CBA  <i>Also consider</i> <ul style="list-style-type: none"> <li>Add and subtract money amounts: multi-step word problems D7C</li> <li>Comparison word problems with addition and subtraction 5L2</li> </ul>

# Chapter 4

## Multiplication Tables

Textbook section	IXL skills
<b>Lesson 4.1:</b> Multiplying by 6	1. Multiply by 6 <small>SX6</small>  <i>Also consider</i> <ul style="list-style-type: none"> <li>Write multiplication sentences for equal groups <small>V98</small></li> <li>Write multiplication sentences for arrays <small>5FZ</small></li> </ul>
<b>Lesson 4.2:</b> Multiplying by 7	1. Multiply by 7 <small>9PT</small>  <i>Also consider</i> <ul style="list-style-type: none"> <li>Make arrays to model multiplication <small>PPR</small></li> </ul>
<b>Lesson 4.3:</b> Multiplying by 8	1. Multiply by 8 <small>SMR</small>
<b>Lesson 4.4:</b> Multiplying by 9	1. Multiply by 9 <small>SUH</small> 2. Distributive property: fill in the missing number <small>7UP</small>  <i>Also consider</i> <ul style="list-style-type: none"> <li>Multiplication facts up to 10: find the missing factor <small>FZA</small></li> <li>Multiplication facts up to 10: select the missing factors <small>WZA</small></li> <li>Multiplication sentences up to 10: true or false? <small>MTU</small></li> </ul>
<b>Lesson 4.5:</b> Multiplying by 11	1. Multiply by 11 <small>AZJ</small>  <i>Also consider</i> <ul style="list-style-type: none"> <li>Multiply by 10 <small>6YD</small></li> </ul>
<b>Lesson 4.6:</b> Multiplying by 12	1. Multiply by 12 <small>8NV</small>  <i>Also consider</i> <ul style="list-style-type: none"> <li>Multiplication tables up to 12 <small>TK7</small></li> </ul>

**Lesson 4.7:** Multiplication Patterns

1. Even or odd: multiplication patterns WS2

*Also consider*

- Multiplication facts up to 12: true or false? YSY
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**Lesson 4.8:** Dividing using Multiplication Facts

1. Relate multiplication and division for groups FTU
2. Relate multiplication and division 67L
3. Division facts up to 12 TA7

*Also consider*

- Write division sentences for groups FSX
  - Multiplication facts up to 12: find the missing factor WB8
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# Chapter 5

## Multiplication

Textbook section	IXL skills
<b>Lesson 5.1:</b> Multiplying using Models	<ol style="list-style-type: none"><li>1. Multiply 1-digit numbers by teen numbers using grids 8XQ</li><li>2. Multiply one-digit numbers by 2-digit or 3-digit numbers using area models GFS</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Multiply one-digit numbers by two-digit numbers using area models I V9Q</li><li>• Multiply one-digit numbers by three-digit numbers using area models I KLZ</li></ul>
<b>Lesson 5.2:</b> Multiplying Without Regrouping	<ol style="list-style-type: none"><li>1. Multiplication patterns: multiples of 10 and 100 QGP</li><li>2. Multiply by one-digit numbers: without regrouping 8D6</li></ol>
<b>Lesson 5.3:</b> Multiplying with Regrouping	<ol style="list-style-type: none"><li>1. Multiply by one-digit numbers: with regrouping RFK</li></ol>

# Chapter 6

## Using Bar Models: The Four Operations

Textbook section	IXL skills
<b>Lesson 6.1:</b> Real-World Problems: Multiplication	<ol style="list-style-type: none"><li>Multiplication word problems 9TA</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Compare numbers using multiplication: word problems Z46</li></ul>
<b>Lesson 6.2:</b> Real-World Problems: Division	<ol style="list-style-type: none"><li>Division word problems ECS</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Multiplication and division word problems 85K</li></ul>
<b>Lesson 6.3:</b> Real-World Problems: Four Operations	<ol style="list-style-type: none"><li>Two-step mixed operation word problems SRL</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Comparison word problems: addition or multiplication? A52</li></ul>



# Chapter 7

## Fractions

### Textbook section

### IXL skills

#### Lesson 7.1: Understanding Unit Fractions

1. Match unit fractions to models CPK
2. Match fraction words to models P6L

#### *Also consider*

- Make halves, thirds, fourths, sixths, and eighths JHE
- Unit fractions: modeling word problems UV8

#### Lesson 7.2: Fractions as Part of a Whole

1. Understand fractions: fraction bars 6JL
2. Decompose fractions into unit fractions using models P75
3. Graph fractions on number lines 7QM

#### *Also consider*

- Understand fractions: area models RTW
- Identify fractions on number lines AWH

#### Lesson 7.3: Fractions as Part of a Set

1. Fractions of a group 8H3
2. Fractions of a number 6QY

#### *Also consider*

- Fractions of a group: word problems Z65
- Fractions of a number: word problems 9HF

#### Lesson 7.4: Understanding Equivalent Fractions

1. Find equivalent fractions using area models: two models ZJ2
2. Find equivalent fractions using number lines JL8

#### *Also consider*

- Find equivalent fractions using area models: one model 6DY
- Graph equivalent fractions on number lines WPQ
- Identify equivalent fractions 7DA

**Lesson 7.5:** Comparing Fractions

1. Compare fractions using models MJ2

*Also consider*

- Graph and compare fractions on number lines 6H5
  - Compare fractions 78D
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# Chapter 8

## Measurement

Textbook section	IXL skills
<b>Lesson 8.1:</b> Mass: Kilograms and Grams	<ol style="list-style-type: none"><li>1. Compare and convert metric units of weight C9Z</li><li>2. Convert metric mixed units of weight WC9</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Which metric unit of weight is appropriate? PTF</li></ul>
<b>Lesson 8.2:</b> Liquid Volume: Liters and Milliliters	<ol style="list-style-type: none"><li>1. Which metric unit of volume is appropriate? LYS</li><li>2. Compare and convert metric units of volume RK2</li><li>3. Convert metric mixed units of volume R8Z</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Conversion tables - metric units 8NZ</li></ul>
<b>Lesson 8.3:</b> Real-World Problems: One-Step Problems	<ol style="list-style-type: none"><li>1. Measurement word problems VPW</li></ol>

# Chapter 9

## Area and Perimeter

Textbook section	IXL skills
<b>Lesson 9.1:</b> Area	<ol style="list-style-type: none"> <li>Find the area of figures made of unit squares FLQ</li> <li>Select two figures with the same area 7GW</li> </ol>
<b>Lesson 9.2:</b> Square Units ( $\text{cm}^2$ and $\text{in}^2$ )	<ol style="list-style-type: none"> <li>Area of figures on grids J93</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Create figures with a given area Z2H</li> </ul>
<b>Lesson 9.3:</b> Square Units ( $\text{m}^2$ and $\text{ft}^2$ )	<ol style="list-style-type: none"> <li>Tile a rectangle and find the area EKK</li> <li>Select figures with a given area XR6</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Find the area of rectangles with missing unit squares KTN</li> </ul>
<b>Lesson 9.4:</b> Perimeter and Area	<ol style="list-style-type: none"> <li>Perimeter of figures on grids TQP</li> <li>Multiply to find the area of a rectangle made of unit squares S7G</li> <li>Find the areas of complex figures by dividing them into rectangles DVB</li> <li>Find the area of complex figures SGP</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Find the area of rectangles and squares 8KJ</li> </ul>
<b>Lesson 9.5:</b> More Perimeter	<ol style="list-style-type: none"> <li>Perimeter of polygons LLY</li> <li>Perimeter: word problems CLD</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Perimeter: find the missing side length T2V</li> <li>Perimeter of rectangles ZJT</li> <li>Perimeter of rectilinear shapes 65Z</li> <li>Compare area and perimeter of two figures PMF</li> </ul>

# Chapter 10

## Time

Textbook section	IXL skills
<b>Lesson 10.1:</b> Telling Time	<ol style="list-style-type: none"><li>1. Match clocks and times LPT</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Read clocks and write times 5ZQ</li><li>• Write times EQS</li><li>• A.M. or P.M. MUC</li></ul>
<b>Lesson 10.2:</b> Converting Hours and Minutes	<ol style="list-style-type: none"><li>1. Convert mixed time units 63G</li></ol>
<b>Lesson 10.3:</b> Elapsed Time	<ol style="list-style-type: none"><li>1. Find the elapsed time SCQ</li><li>2. Elapsed time: find the end time U7B</li><li>3. Time word problems: find the start, end, or elapsed time MNY</li></ol>

# Chapter 11

## Graphs and Line Plots

Textbook section	IXL skills
<b>Lesson 11.1:</b> Making Picture Graphs with Scales	<ol style="list-style-type: none"><li>1. Interpret pictographs Y5D</li><li>2. Create pictographs AVG</li></ol>
<b>Lesson 11.2:</b> Making Bar Graphs with Scales	<ol style="list-style-type: none"><li>1. Create bar graphs RPF</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Interpret tally charts 8CW</li></ul>
<b>Lesson 11.3:</b> Reading and Interpreting Bar Graphs	<ol style="list-style-type: none"><li>1. Interpret bar graphs V54</li><li>2. Use bar graphs to solve problems BCJ</li></ol>
<b>Lesson 11.4:</b> Line Plots and Estimation	<ol style="list-style-type: none"><li>1. Create line plots H5J</li><li>2. Create line plots with fractions YUR</li><li>3. Measure using an inch ruler LC2</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Interpret line plots YXD</li></ul>

# Chapter 12

## Angles, Lines, and Two-Dimensional Figures

Textbook section	IXL skills
<b>Lesson 12.1:</b> Introducing Angles	<ol style="list-style-type: none"><li>Angles greater than, less than, or equal to a right angle 2YR</li></ol>
<b>Lesson 12.2:</b> Introducing Perpendicular and Parallel Lines	<ol style="list-style-type: none"><li>Perpendicular lines EB7</li><li>Parallel lines 3E7</li></ol>
<b>Lesson 12.3:</b> Polygons	<ol style="list-style-type: none"><li>Open and closed shapes 9PS</li><li>Classify quadrilaterals CNJ</li><li>Draw quadrilaterals 5KS</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Is it a polygon? C2P</li><li>Count and compare sides and vertices GWA</li></ul>