



IXL Skill Alignment

2nd Grade alignment for Math in Focus



Use IXL's interactive skill plan to get up-to-date skill alignments, assign skills to your students, and track progress.

www.ixl.com/math/skill-plans/math-in-focus-2020-grade-2

This document includes the IXL® skill alignments to Houghton Mifflin Harcourt's **Math in Focus** curriculum. IXL provides skill alignments as a service to teachers, students, and parents. The skill alignments are provided by IXL and are not affiliated with, sponsored by, reviewed, approved or endorsed by Houghton Mifflin Harcourt or any other third party. IXL® and IXL Learning® are registered trademarks of IXL Learning, Inc. All other intellectual property rights (e.g., unregistered and registered trademarks and copyrights) are the property of their respective owners.

Visit IXL.com for more information

IXL Learning © 2021

Chapter 1

Numbers to 1,000

Textbook section	IXL skills
Lesson 1.1: Counting to 1,000	<ol style="list-style-type: none">1. Place value models - up to hundreds PBX2. Count by tens and hundreds Z8G
Lesson 1.2: Place Value	<ol style="list-style-type: none">1. Convert to/from a number - up to hundreds HUX2. Convert from expanded form - up to hundreds LG53. Writing numbers up to 1,000 in words - convert words to digits JKD4. Writing numbers up to 1,000 in words - convert digits to words VPQ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Identify a digit up to the hundreds place 45U• Place value - up to hundreds BDF• Convert between place values - ones, tens, and hundreds M6X
Lesson 1.3: Comparing and Ordering Numbers	<ol style="list-style-type: none">1. Comparing numbers up to 1,000 XF92. Put numbers up to 1,000 in order 3N2 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Greatest and least - word problems - up to 1,000 6QX
Lesson 1.4: Number Patterns	<ol style="list-style-type: none">1. Number lines - up to 1,000 KFQ2. Count forward and backward by twos, fives, tens, and hundreds HNG

Chapter 2

Addition Within 1,000

Textbook section	IXL skills
Lesson 2.1: Adding Fluently Within 100	<ol style="list-style-type: none"> 1. Add one-digit numbers 5C6 2. Add two-digit numbers I VBA 3. Use compensation to add - up to two digits SCF <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Complete the addition sentence - up to two digits CZK • Addition word problems - up to two digits XAT
Lesson 2.2: Adding Without Regrouping	<ol style="list-style-type: none"> 1. Use models to add three-digit numbers - without regrouping Q7V 2. Add three-digit numbers - without regrouping Y2U
Lesson 2.3: Adding with Regrouping in Ones	<ol style="list-style-type: none"> 1. Add a one-digit number and a three-digit number RXE <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Regroup tens and ones 5LV
Lesson 2.4: Adding with Regrouping in Tens	<ol style="list-style-type: none"> 1. Use models to add three-digit numbers - regroup tens or ones 52B 2. Add a two-digit number and a three-digit number CYX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add multiples of 10 or 100 RCJ
Lesson 2.5: Adding with Regrouping in Ones and Tens	<ol style="list-style-type: none"> 1. Use models to add three digit numbers - regroup tens and ones 8R8 2. Add two three-digit numbers - with regrouping 2GA 3. Use compensation to add - up to three digits 89B

Also consider

- Complete the addition sentence - up to three digits R5W
- Addition word problems - up to three digits UV2
- Addition up to three digits - fill in the missing digits 7AT

Lesson 2.6: Adding Four 2-Digit Numbers

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
-

Chapter 3

Subtraction Within 1,000

Textbook section	IXL skills
Lesson 3.1: Subtracting Fluently Within 100	<ol style="list-style-type: none"> 1. Subtract a one-digit number from a two-digit number up to 18 HSU 2. Subtract two-digit numbers DZH <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Complete the subtraction sentence - up to two digits YWC • Subtraction word problems - up to two digits UFU
Lesson 3.2: Subtracting Without Regrouping	<ol style="list-style-type: none"> 1. Subtract three-digit numbers - without regrouping EFL <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Ways to make a number using subtraction DTN
Lesson 3.3: Subtracting with Regrouping in Tens and Ones	<ol style="list-style-type: none"> 1. Subtract a one-digit number from a three-digit number 56N <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtract multiples of 10 2Q6
Lesson 3.4: Subtracting with Regrouping in Hundreds and Tens	<ol style="list-style-type: none"> 1. Subtract three-digit numbers - with regrouping E8A <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtract multiples of 100 2E2
Lesson 3.5: Subtracting with Regrouping in Hundreds, Tens, and Ones	<ol style="list-style-type: none"> 1. Subtract three-digit numbers - regroup tens and hundreds WJP 2. Complete the subtraction sentence - up to three digits MDY <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtraction word problems - up to three digits ZMA • Balance subtraction equations - up to three digits LSU

Lesson 3.6: Subtracting Across Zeros

1. Subtract across zeros 9G5

Chapter 4

Using Bar Models: Addition and Subtraction

Textbook section	IXL skills
Lesson 4.1: Using Part-Whole in Addition and Subtraction	1. Addition and subtraction word problems - up to 100 MEP
Lesson 4.2: Adding On and Taking Away Sets	1. Addition and subtraction word problems - up to 1,000 MJB <i>Also consider</i> <ul style="list-style-type: none">Write the addition or subtraction sentence - up to two digits JHU
Lesson 4.3: Comparing Two Sets	<ul style="list-style-type: none"><i>Coming soon:</i> Comparison word problems
Lesson 4.4: Real-World Problems: Two-Step Problems	1. Two-step addition and subtraction word problems YZT

Chapter 5

Length

Textbook section	IXL skills
Lesson 5.1: Measuring in Meters	
Lesson 5.2: Measuring in Centimeters	1. Measure using a centimeter ruler 7WA
Lesson 5.3: Comparing and Ordering Metric Lengths	1. Which metric unit of length is appropriate? SKH
Lesson 5.4: Real-World Problems: Addition and Subtraction of Metric Lengths	1. Metric units of length: word problems KJ5
Lesson 5.5: Measuring in Feet	
Lesson 5.6: Measuring in Inches	1. Measure using an inch ruler 88A
Lesson 5.7: Comparing and Ordering Customary Lengths	1. Which customary unit of length is appropriate: inches or feet? 5XG
Lesson 5.8: Real-World Problems: Addition and Subtraction of Customary Lengths	1. Customary units of length: word problems GSF

Chapter 6

Mass

Textbook section	IXL skills
Lesson 6.1: Measuring Kilograms	<ul style="list-style-type: none">• <i>Coming soon:</i> Measure weight in kilograms
Lesson 6.2: Measuring in Grams	<ul style="list-style-type: none">• <i>Coming soon:</i> Measure weight in grams
Lesson 6.3: Comparing Masses in Kilograms and Grams	<ol style="list-style-type: none">1. Light and heavy 2PK2. Which metric unit of weight is appropriate? 7WD
Lesson 6.4: Real-World Problems: Addition and Subtraction of Masses	

Chapter 7

Graphs and Line Plots

Textbook section	IXL skills
Lesson 7.1: Picture Graphs	<ol style="list-style-type: none">1. Introduction to pictographs S7A2. Create pictographs DFP3. Interpret pictographs N9Z
Lesson 7.2: Bar Graphs	<ol style="list-style-type: none">1. Interpret bar graphs I RPD2. Interpret bar graphs II 8CH3. Create bar graphs 6KD <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which bar graph is correct? BMG
Lesson 7.3: Line Plots	<ol style="list-style-type: none">1. Interpret line plots HY62. Create line plots F2U

Chapter 8

Multiplication and Division

Textbook section	IXL skills
Lesson 8.1: How to Multiply	<ol style="list-style-type: none">1. Count equal groups LHS2. Identify multiplication sentences for equal groups S7X3. Write multiplication sentences for equal groups A864. Relate addition and multiplication for equal groups NFF
Lesson 8.2: How to Divide	<ol style="list-style-type: none">1. Divide by counting equal groups MTV2. Write division sentences for groups VGQ3. Divide using repeated subtraction M2W <p><i>Also consider</i></p> <ul style="list-style-type: none">• Divisors and quotients up to 5 DCJ
Lesson 8.3: Real-World Problems: Multiplication and Division	<ol style="list-style-type: none">1. Multiplication and division word problems CXZ
Lesson 8.4: Odd and Even Numbers	<ol style="list-style-type: none">1. Even or odd 54Z2. Identify numbers as even or odd RGJ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Select even or odd numbers JLX

Chapter 9

Multiplication Tables

Textbook section	IXL skills
Lesson 9.1: Multiply by 2	<ol style="list-style-type: none"> 1. Skip-counting by twos LK2 2. Multiply by 2 8K3 3. Write multiplication sentences for arrays: multiply by 2 EWW
Lesson 9.2: Multiply by 5	<ol style="list-style-type: none"> 1. Skip-counting by fives VHG 2. Multiply by 5 W46 3. Write multiplication sentences for arrays: multiply by 5 PT8 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Skip counting sequences: count by fives S2F
Lesson 9.3: Multiply by 10	<ol style="list-style-type: none"> 1. Skip-counting by tens 5PY 2. Multiply by 10 23Q <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Count forward and backward by twos, fives, and tens PVB
Lesson 9.4: Multiply by 3	<ol style="list-style-type: none"> 1. Skip counting sequences: count by threes TKF 2. Multiply by 3 X6X 3. Write multiplication sentences for arrays: multiply by 3 XTZ
Lesson 9.5: Multiply by 4	<ol style="list-style-type: none"> 1. Skip counting sequences: count by fours 52V 2. Multiply by 4 YG6 3. Write multiplication sentences for arrays: multiply by 4 S9E
Lesson 9.6: Multiplying Numbers in Any Order	<ol style="list-style-type: none"> 1. Identify multiplication expressions for arrays APC 2. Write multiplication sentences for arrays LN5 3. Multiplication tables for 2, 3, 4, 5, and 10 3Q9

Lesson 9.7: Dividing Using Multiplication Facts

1. Relate multiplication and division for groups ZKU
 2. Relate multiplication and division PSU
-

Chapter 10

Time and Money

Textbook section	IXL skills
Lesson 10.1: Reading and Writing Time	<ol style="list-style-type: none"> 1. Match digital clocks and times 36N 2. Match analog clocks and times D9K 3. Read clocks and write times K7F <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Match analog and digital clocks HKL • Time words: o'clock, half, quarter 5TA
Lesson 10.2: Using A.M. and P.M.	<ol style="list-style-type: none"> 1. A.M. or P.M. EJV 2. Compare clocks UFP
Lesson 10.3: Bills	<ol style="list-style-type: none"> 1. Count money up to \$100 3T6 2. Equivalent amounts of money - up to \$1 MGA 3. Exchanging money - with pictures VZD
Lesson 10.4: Comparing Amounts of Money	<ol style="list-style-type: none"> 1. Compare money amounts DYJ 2. Put money amounts in order CR9 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Comparing groups of coins FVT
Lesson 10.5: Real-World Problems: Money	<ol style="list-style-type: none"> 1. Add and subtract money - up to \$1: word problems N5Y <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Purchases - do you have enough money - up to \$5 W79 • How much more to make a dollar? V9L • Correct amount of change LQ7

Chapter 11

Shapes

Textbook section

IXL skills

Lesson 11.1: Lines and Surfaces

1. Curved parts HYX
2. Identify shapes traced from solids MRD
3. Name the three-dimensional shape 9E9

Also consider

- Shapes of everyday objects I 9VC
- Shapes of everyday objects II 63Q

Lesson 11.2: Flat Shapes

1. Select two-dimensional shapes DWL
2. Identify halves, thirds, and fourths 24W
3. Make halves, thirds, and fourths QD2
4. Compose two-dimensional shapes QPK

Also consider

- Name the two-dimensional shape 2FK
- Count sides and vertices EAQ
- Equal parts H5R
- Make halves, thirds, and fourths in different ways 6SG

Lesson 11.3: Solid Shapes

1. Select three-dimensional shapes FAL
2. Count faces of three-dimensional shapes 7XH

Also consider

- Identify faces of three-dimensional shapes QSR