



IXL Skill Alignment

3rd grade alignment for Math & YOU



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-and-you-grade-3

This document includes the IXL® skill alignments to Big Ideas Learning's **Math & YOU** 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 Big Ideas Learning 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.

Chapter 1

Understand Multiplication and Division

Textbook section

IXL skills

Lesson 1.1: Use Equal Groups to Multiply

1. Count equal groups 9K7
2. Relate addition and multiplication for equal groups GGC
3. Write multiplication sentences for equal groups V98
4. Use strip models to solve multiplication word problems EYU

Also consider

- Identify multiplication expressions for equal groups 9AE
- Relate addition and multiplication P74

Lesson 1.2: Use Number Lines to Multiply

1. Write multiplication sentences for number lines NTV
2. Multiply using number lines XHY

Also consider

- Skip-count LQM
- Skip-counting sequences 5FD

Lesson 1.3: Use Arrays to Multiply

1. Write multiplication sentences for arrays 5FZ
2. Make arrays to model multiplication PPR
3. Use arrays to solve multiplication word problems UCY

Also consider

- Identify multiplication expressions for arrays HZL
- Write addition sentences for arrays: sums to 25 A87
- Identify repeated addition for arrays: sums to 25 ER2

Lesson 1.4: Multiply in Any Order

1. Write two multiplication sentences for an array QLK



Lesson 1.5: Divide: Size of Equal Groups

1. Divide by counting equal groups UYK
2. Write division sentences for groups FSX
3. Use strip models to solve division word problems 2YL

Lesson 1.6: Divide: Number of Equal Groups

Lesson 1.7: Use Number Lines to Divide

1. Divide using number lines GB2
 2. Divide using repeated subtraction V5C
-

Chapter 2

Multiplication Facts and Strategies

Textbook section	IXL skills
Lesson 2.1: Multiply by 2	<ol style="list-style-type: none">1. Multiply 2 by numbers up to 10 94M <p><i>Also consider</i></p> <ul style="list-style-type: none">• Multiply by 2 using a number line QDN• Skip-counting sequences: count by twos 7S8
Lesson 2.2: Multiply by 5	<ol style="list-style-type: none">1. Multiply 5 by numbers up to 10 Y9E
Lesson 2.3: Multiply by 10	<ol style="list-style-type: none">1. Multiply 10 by numbers up to 10 6YD2. Multiplication facts for 2, 5, and 10: find the missing factor E2N <p><i>Also consider</i></p> <ul style="list-style-type: none">• Count and compare groups of coins: nickels and dimes YTU• Multiply by 5 and 10 G48
Lesson 2.4: Multiply by 0 or 1	<ol style="list-style-type: none">1. Multiply by 0 or 1 CNG2. Multiply by 0 or 1: complete the sentence RBK3. Multiply by 0 or 1 with equal groups MZE <p><i>Also consider</i></p> <ul style="list-style-type: none">• Multiplication facts for 1, 2, 5, and 10: true or false? JD6• Multiply by 2, 5, and 10 BSK
Lesson 2.5: Use the Distributive Property	<ol style="list-style-type: none">1. Multiply one-digit numbers using grids HXY <p><i>Also consider</i></p> <ul style="list-style-type: none">• Multiply using the distributive property 6W7• Distributive property: find the missing factor TVP

Lesson 2.6: Problem Solving

1. Multiplication with 2, 5, and 10: word problems FDF

Also consider

- Use equal groups and arrays to solve multiplication word problems EBV
-

Chapter 3

More Multiplication Facts and Strategies

Textbook section	IXL skills
Lesson 3.1: Multiply by 3	1. Multiply 3 by numbers up to 10 38K
Lesson 3.2: Multiply by 4	1. Multiply 4 by numbers up to 10 5U6 2. Multiplication word problems with factors up to 5 HDU <i>Also consider</i> <ul style="list-style-type: none"> Multiply by 4 using a number line 58G Multiply by 2 and 4 in recipes MH8 Multiplication facts for 2, 3, 4, 5, and 10 DW5 Multiplication facts for 2, 3, 4, 5, and 10: find the missing factor ZEY Multiplication facts for 2, 3, 4, 5, and 10: sorting REN
Lesson 3.3: Multiply by 6	1. Multiply 6 by numbers up to 10 SX6 <i>Also consider</i> <ul style="list-style-type: none"> Multiply by 5 and 6 7K9
Lesson 3.4: Multiply by 7	1. Multiply 7 by numbers up to 10 9PT 2. Multiplication facts for 6 and 7: find the missing factor N57
Lesson 3.5: Multiply by 8	1. Multiply 8 by numbers up to 10 SMR <i>Also consider</i> <ul style="list-style-type: none"> Multiply by 2, 4, 6, 8 and 10 FKS
Lesson 3.6: Multiply by 9	1. Multiply 9 by numbers up to 10 SUH 2. Multiplication word problems: identify the product XZ5 <i>Also consider</i> <ul style="list-style-type: none"> Multiplication facts for 6, 7, 8, and 9 XT7 Multiplication facts for 6, 7, 8, and 9: sorting TZ7

Lesson 3.7: Multiply Three Factors

1. Multiply three numbers using properties YDP
2. Multiply three numbers 9DF
3. Multiply three numbers: word problems S7B

Also consider

- Multiplication sentences up to 10: true or false? MTU

Lesson 3.8: Problem Solving

1. Multiplication word problems with factors up to 10 9TA

Also consider

- Multiplication facts up to 10: sorting SUJ
- Compare numbers using multiplication: word problems Z46

Chapter 4

Division Facts and Strategies

Textbook section

IXL skills

Lesson 4.1: Use Arrays to Divide

1. Write division sentences for arrays 8RW
2. Make arrays to model division R8J

Also consider

- Multiplication word problems with factors up to 10: find the missing number F6C
- Make arrays to model multiplication: given products TY9

Lesson 4.2: Relate Multiplication and Division

1. Relate multiplication and division for arrays XSK

Also consider

- Multiplication facts for 6, 7, 8, and 9: find the missing factor X7N
- Relate multiplication and division for groups FTU

Lesson 4.3: Divide by 2, 5, or 10

1. Divide by 2: quotients up to 10 ANU
2. Divide by 5: quotients up to 10 C9M
3. Divide by 10: quotients up to 10 YRG

Also consider

- Relate multiplication and division for groups of 5 27Y
- Multiply and divide by 5 and 10 QAF
- Multiply and divide by 2 and 5 CPH

Lesson 4.4: Divide by 3 or 4

1. Divide by 3: quotients up to 10 PCL
2. Divide by 4: quotients up to 10 QGT
3. Relate multiplication and division: divisors of 2, 3, 4, 5, and 10 UMH
4. Division word problems: divisors and quotients up to 5 CFR

Also consider

- Division facts for 2, 3, 4, 5, and 10 2JB

Lesson 4.5: Divide by 6 or 7

- Division facts for 2, 3, 4, 5, and 10: sorting XDN

1. Divide by 6: quotients up to 10 97S

2. Divide by 7: quotients up to 10 D2F

Also consider

- Multiply and divide by 6 and 7 QTV

Lesson 4.6: Divide by 8 or 9

1. Divide by 8: quotients up to 10 CVD

2. Divide by 9: quotients up to 10 RTB

3. Relate multiplication and division: divisors of 6, 7, 8, and 9 MLW

Also consider

- Use equal groups to solve division word problems NEC
- Division facts for 6, 7, 8, and 9 U2C
- Division facts for 6, 7, 8, and 9: sorting KQR
- Multiply and divide by 2, 4, and 8 6A5

Lesson 4.7: Divide with 0 or 1

1. Division sentences with 1 and 0 FYZ

2. Multiplication and division with 0 or 1 XWR

Also consider

- Divide by 1: quotients up to 10 VTL

Lesson 4.8: Problem Solving

1. Relate multiplication and division: factors up to 12 BCN

2. Division word problems ECS

Also consider

- Division facts up to 10: sorting CYJ

Chapter 5

Patterns and Fluency

Textbook section	IXL skills
Lesson 5.1: Identify Patterns in a Multiplication Table	<ol style="list-style-type: none"> 1. Identify multiplication patterns in tables CK9 2. Multiplication and division: real-world patterns QQN <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Even or odd: multiplication patterns WS2 • Skip-count with tables VA9 • Multiplication input/output tables 8CM • Multiplication input/output tables: find the rule D5U
Lesson 5.2: Use a Multiplication Table	<ol style="list-style-type: none"> 1. Relate multiplication and division 67L 2. Multiplication and division facts up to 10 VXX
Lesson 5.3: Complete Multiplication Tables	<ol style="list-style-type: none"> 1. Multiplication and division facts up to 10: find the missing number 88D <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiplication facts up to 10: select the missing factors WZA • Division facts up to 10: select the missing numbers FPA
Lesson 5.4: Order of Operations	<ol style="list-style-type: none"> 1. Perform multiple operations with whole numbers UKB
Lesson 5.5: Problem Solving	<ol style="list-style-type: none"> 1. Multiplication and division word problems 85K

Chapter 6

Relate Area to Multiplication

Textbook section	IXL skills
Lesson 6.1: Understand Area	<ol style="list-style-type: none"> 1. Area of figures on grids J93 2. Find the area of figures made of unit squares FLQ 3. Create figures with a given area Z2H
Lesson 6.2: Measure Area Using Standard Units	<ol style="list-style-type: none"> 1. Tile a rectangle and find the area: customary and metric units D6T 2. Find the area of figures made of unit squares: customary and metric units X53 3. Select figures with a given area XR6 4. Create rectangles with a given area V73 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Select two figures with the same area 7GW
Lesson 6.3: Find Area by Multiplying	<ol style="list-style-type: none"> 1. Multiply to find the area of a rectangle made of unit squares S7G 2. Find the area of rectangles and squares 8KJ 3. Find the area of complex figures by dividing them into rectangles DVB <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Find the area of rectangles: word problems 5HA • Find the missing side length of a rectangle X66
Lesson 6.4: Multiply by Multiples of 10	<ol style="list-style-type: none"> 1. Multiply by a multiple of ten using place value GPN 2. Multiply by a multiple of ten MS6
Lesson 6.5: Area and the Distributive Property	<ol style="list-style-type: none"> 1. Find the area of a tiled rectangle using the distributive property EFG
Lesson 6.6: Find Areas of More Shapes	<ol style="list-style-type: none"> 1. Find the area of complex figures by dividing them into rectangles DVB 2. Find the area of complex figures SGP



3. Find the area of complex figures: word problems D9G

1. Two-step multiplication and division word problems 8FP

Lesson 6.7: Problem Solving

Chapter 7

Add and Subtract Multi-Digit Numbers

Textbook section	IXL skills
Lesson 7.1: Round Numbers Using a Number Line	<ol style="list-style-type: none"> 1. Round to the nearest ten or hundred using a number line 6ST
Lesson 7.2: Round Numbers Using Place Value	<ol style="list-style-type: none"> 1. Round to the nearest ten or hundred Q65 2. Round to the nearest ten or hundred in a table 6Y5 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Rounding puzzles SFM
Lesson 7.3: Estimate Sums and Differences	<ol style="list-style-type: none"> 1. Estimate sums and differences by rounding: up to 1,000 MTL 2. Estimate sums and differences using compatible numbers TDT 3. Estimate sums and differences: word problems BU8
Lesson 7.4: Identify Addition Properties	<ol style="list-style-type: none"> 1. Properties of addition NY2 2. Complete the equation using properties of addition CGS 3. Add using properties KYA
Lesson 7.5: Use Number Lines to Add	<ol style="list-style-type: none"> 1. Use number lines to add three-digit numbers 8XG 2. Add two numbers up to three digits using place value BMH <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Addition word problems: up to 100 Y6C
Lesson 7.6: Use Partial Sums to Add	<ol style="list-style-type: none"> 1. Use expanded form to add three-digit numbers RPC 2. Add three-digit numbers ZDE <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Use expanded form to subtract three-digit numbers YM7

Lesson 7.7: Add Three or More Numbers

- Add data from tables: up to three digits MYM
1. Add three numbers up to three digits each GSY
 2. Add three numbers up to three digits each: word problems NPU

Lesson 7.8: Use Number Lines to Subtract

1. Use number lines to subtract three-digit numbers QRQ
2. Subtract with two-digit or three-digit numbers MY5

Also consider

- Subtraction word problems: up to 100 8G9

Lesson 7.9: Use Partial Differences to Subtract

1. Subtract numbers up to three digits EHT
2. Subtract numbers up to three digits: word problems K88

Also consider

- Subtract numbers up to three digits: without regrouping QFE
- Subtract three-digit numbers: with regrouping H7D

Lesson 7.10: Problem Solving

1. Two-step addition and subtraction word problems CBA

Chapter 8

Understand Fractions

Textbook section

IXL skills

Lesson 8.1: Equal Parts of a Whole

1. Identify equal parts FHY
2. Make halves, thirds, fourths, sixths, and eighths JHE

Also consider

- Make halves, thirds, and fourths in different ways DXJ

Lesson 8.2: Understand a Unit Fraction

1. Match unit fractions to models CPK
2. Unit fractions: modeling word problems UV8

Also consider

- Match fraction words to models P6L
- Unit fractions: word problems HM7

Lesson 8.3: Write Fractions of a Whole

1. Understand fractions: area models RTW
2. Show fractions: area models NLE
3. Fractions of a whole: word problems BV7

Also consider

- Match fractions to models YHL
- Fractions of a whole: modeling word problems 9PU
- Understand fractions: fraction bars 6JL
- Show fractions: fraction bars ZPW

Lesson 8.4: Fractions on a Number Line: Less Than 1

1. Graph fractions less than 1 on number lines HWJ
2. Identify fractions on number lines AWH

Also consider

- Graph unit fractions on number lines CBW
- Identify unit fractions on number lines JVC
- Fractions of number lines PYB

Lesson 8.5: Fractions on a Number Line: Greater Than 1

1. Graph fractions greater than 1 on number lines 2GQ
-

Chapter 9

Fraction Equivalence and Comparison

Textbook section	IXL skills
Lesson 9.1: Equivalent Fractions	<ol style="list-style-type: none"> 1. Find equivalent fractions using area models: two models ZJ2 2. Find equivalent fractions using fraction strips LXP <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify equivalent fractions 7DA • Find equivalent fractions using area models: one model 6DY
Lesson 9.2: Equivalent Fractions on a Number Line	<ol style="list-style-type: none"> 1. Find equivalent fractions using number lines JL8 2. Select fractions equivalent to whole numbers 42U 3. Graph equivalent fractions on number lines WPQ 4. Find equivalent fractions WMX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify equivalent fractions on number lines HYM
Lesson 9.3: Relate Fractions and Whole Numbers	<ol style="list-style-type: none"> 1. Find fractions equivalent to whole numbers KCE <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Graph fractions equivalent to 1 on number lines 7BL • Select fractions equivalent to whole numbers using models GKZ
Lesson 9.4: Compare Fractions with the Same Denominator	<ol style="list-style-type: none"> 1. Compare fractions with like denominators using models TDE 2. Compare fractions with like denominators 8SU <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Graph and compare fractions with like denominators on number lines 63U

Lesson 9.5: Compare Fractions with the Same Numerator

1. Compare fractions with like numerators using models RGM
2. Compare fractions with like numerators 7LX

Also consider

- Graph and compare fractions with like numerators on number lines ZPD

Lesson 9.6: Compare Fractions on a Number Line

1. Compare fractions using number lines 38T
2. Graph and compare fractions on number lines 6H5
3. Compare fractions in recipes 9BK

Also consider

- Graph smaller or larger fractions on a number line 2PH
- Compare unit fractions using number lines 5WB

Chapter 10

Understand Time and Measurement

Textbook section	IXL skills
Lesson 10.1: Time to the Nearest Minute	<ol style="list-style-type: none"> 1. Match analog and digital clocks L5U 2. Read clocks and write times 5ZQ 3. Match clocks and times LPT <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify times written in words EQS • A.M. or P.M. MUC
Lesson 10.2: Measure Elapsed Time within the Hour	
Lesson 10.3: Measure Elapsed Time across the Hour	<ol style="list-style-type: none"> 1. Find the elapsed time: up to 1 hour KAZ 2. Word problems about start time, end time, and elapsed time: up to 1 hour QPQ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Find the end time: word problems 5VC
Lesson 10.4: Problem Solving	<ol style="list-style-type: none"> 1. Find the end time U7B <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Find the start time, the end time, or the elapsed time: word problems 9JB
Lesson 10.5: Understand and Estimate Liquid Volume	<ol style="list-style-type: none"> 1. Which metric unit of volume is appropriate? LYS
Lesson 10.6: Measure Liquid Volume	<ol style="list-style-type: none"> 1. Measure liquid volumes - metric units 7FE
Lesson 10.7: Understand and Estimate Mass	<ol style="list-style-type: none"> 1. Which metric unit of mass is appropriate? PTF
Lesson 10.8: Measure Mass	<ol style="list-style-type: none"> 1. Measurement word problems VPW <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Choose the appropriate measuring tool FTA • Read a scale - metric units 66D

Lesson 10.9: Problem Solving

1. Measurement word problems VPW

Also consider

- Which metric unit is appropriate? FQ8
-

Chapter 11

Classify Two-Dimensional Shapes

Textbook section

IXL skills

Lesson 11.1: Identify Sides and Angles of Quadrilaterals

1. Parallel sides in quadrilaterals 6E9
2. Sides and angles of quadrilaterals RBZ

Also consider

- Angles greater than, less than, or equal to a right angle 2YR
- Parallel lines 3E7
- Compose two-dimensional shapes AES
- Is it a polygon? C2P
- Count and compare sides and vertices GWA

Lesson 11.2: Describe Quadrilaterals

1. Identify parallelograms V6L
2. Identify trapezoids 67A
3. Identify rectangles 47T
4. Identify rhombuses ZSD

Lesson 11.3: Classify Quadrilaterals

1. Classify squares, rectangles, rhombuses, parallelograms, and trapezoids CNJ
2. Name quadrilaterals more than one way 45V

Lesson 11.4: Draw Quadrilaterals

1. Draw squares, rectangles, rhombuses, parallelograms, and trapezoids 5KS

Chapter 12

Represent and Interpret Data

Textbook section	IXL skills
Lesson 12.1: Read and Interpret Picture Graphs	1. Interpret scaled picture graphs Y5D <i>Also consider</i> <ul style="list-style-type: none"> Interpret picture graphs: numbers up to 10 JWT Interpret picture graphs: multiples of 10 SYC
Lesson 12.2: Make Picture Graphs	1. Create scaled picture graphs AVG <i>Also consider</i> <ul style="list-style-type: none"> Create picture graphs: numbers up to 10 BFX
Lesson 12.3: Read and Interpret Bar Graphs	1. Interpret scaled bar graphs V54 2. Use bar graphs to solve problems BCJ <i>Also consider</i> <ul style="list-style-type: none"> Interpret bar graphs: two-step problems TLZ Interpret bar graphs: numbers up to 10 ZWC Interpret bar graphs: multi-digit numbers UP6
Lesson 12.4: Make Bar Graphs	1. Create scaled bar graphs RPF <i>Also consider</i> <ul style="list-style-type: none"> Create bar graphs: numbers up to 10 74V Create bar graphs: multi-digit numbers WYL
Lesson 12.5: Read and Make Line Plots	1. Create line plots H5J 2. Interpret line plots YXD <i>Also consider</i> <ul style="list-style-type: none"> Create line plots II X58
Lesson 12.6: Measure Lengths: Half Inch	1. Measure using an inch ruler: nearest 1/2 inch 6BG 2. Create line plots with halves 6RC

Lesson 12.7: Measure Lengths: Quarter Inch

1. Measure using an inch ruler: nearest $\frac{1}{4}$ inch 5R3
2. Create line plots with fractions YUR

Also consider

- Create and interpret line plots with fractions B8Q
-

Chapter 13

Find Perimeter and Area

Textbook section	IXL skills
Lesson 13.1: Understand Perimeter	1. Perimeter of figures on grids VLG <i>Also consider</i> <ul style="list-style-type: none"> Find the area or perimeter of figures on grids U2P
Lesson 13.2: Find Perimeters of Polygons	1. Perimeter of polygons LLY 2. Find the perimeter of rectangles and squares: use properties AT2 3. Find the perimeter: word problems PCZ <i>Also consider</i> <ul style="list-style-type: none"> Perimeter of quadrilaterals 77Y Perimeter of rectangles ZJT Perimeter of rectilinear shapes 65Z
Lesson 13.3: Find Unknown Side Lengths	1. Perimeter of polygons: find the missing side lengths 5X5 2. Perimeter word problems: find the missing side length of a rectangle VEP <i>Also consider</i> <ul style="list-style-type: none"> Area and perimeter of rectangles: find the missing side length SBU Find the area, perimeter, or side length: word problems KD8
Lesson 13.4: Same Perimeter, Different Areas	1. Rectangles with the same perimeter and different areas QGS <i>Also consider</i> <ul style="list-style-type: none"> Find the area or perimeter of rectangles and squares QYU Relationship between area and perimeter: find the area KNR Compare area and perimeter of two figures PMF

Lesson 13.5: Same Area, Different Perimeters

1. Rectangles with the same area and different perimeters NL6
2. Relationship between area and perimeter: find the perimeter ZWF

Also consider

- Create rectangles and squares with a given area XWE
-