IXL Skill Alignment

5th grade alignment for Math Makes Sense

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

ca.ixl.com/math/skill-plans/math-makes-sense-grade-5

Unit 1

Patterns and Equations

Textbook section	IXL skills
Lesson 1: Number Patterns and Pattern Rules	1. Use a rule to complete a number sequence S8H 2. Identify mistakes in number patterns D6R 3. Complete an increasing number sequence AXY
Lesson 2: Using Patterns to Solve Problems	1. Number sequences: word problems WKK 2. Number sequences: mixed review 9Y8
Lesson 3: Using a Variable to Describe a Pattern	1. Write variable expressions S7H
Lesson 4: Strategies Toolkit	
Lesson 5: Using a Variable to Write an Equation	1. Write an equation from words 8GC 2. Write a one-step equation: word problems UPG 3. Which word problem matches the one-step equation? 3E8
Lesson 6: Solving Equations Involving Addition and Subtraction	1. Solve addition and subtraction equations with whole numbers S92
Lesson 7: Solving Equations Involving Multiplication and Division	1. Solve multiplication and division equations with whole numbers NVY *Also consider* • Solve equations with whole numbers 6G2

Unit 2

Whole Numbers

Textbook section	IXL skills
Lesson 1: Numbers to 100 000	1. Relationship between place values KM6
Lesson 2: Exploring One Million	1. Convert between place values 57J
Lesson 3: Representing Numbers	1. Expanded form up to 1 000 000 EX9 2. Place value up to 1 000 000 K9Q 3. Word names for numbers up to 1 000 000 YRR *Also consider* • Place value up to 100 000 VC7 • Word names for numbers up to 100 000 XYB
Lesson 4: Estimating Sums	1. Estimate sums Y5K 2. Estimate sums: word problems MA5
Lesson 5: Using Benchmarks to Estimate	1. Rounding Y8S
Lesson 6: Estimating Differences	1. Estimate differences 2TK 2. Estimate differences: word problems J2V
Lesson 7: Using Estimation to Check Answers	1. Estimate sums and differences: word problems UVJ 2. Add and subtract whole numbers up to 100 000: word problems VRZ *Also consider* • Estimate sums and differences of whole numbers CCJ • Add and subtract whole numbers up to 100 000 JUR
Lesson 8: Strategies Toolkit	1. Guess-and-check problems N56

Visit IXL's interactive skill plan at ca.ixl.com/math/skill-plans/math-makes-sense-grade-5

Unit 3

Multiplying and Dividing Whole Numbers

Textbook section	IXL skills
Lesson 1: Patterns in Multiplication and Division	1. Relate multiplication and division 9C7 *Also consider* • Multiplication facts to 10 5KF • Division facts to 10 JK8
Lesson 2: Other Strategies for Multiplying and Dividing	1. Multiplication facts to 12 HLC 2. Division facts to 12 YFN 3. Division facts to 12: word problems VM7
Lesson 3: Multiplying with Multiples of 10	1. Multiplication patterns over increasing place values FFN 2. Multiply numbers ending in zeros A2M 3. Multiply numbers ending in zeros: word problems Q2C
Lesson 4: Estimating Products to Solve Problems	1. Estimate products GAF 2. Estimate products: word problems R7U
Lesson 5: Using Mental Math to Multiply	1. Multiply 2-digit numbers by 2-digit numbers using area models I A8E 2. Multiply by 1-digit numbers PBV
Lesson 6: Multiplying 2-Digit Numbers	1. Multiply 2-digit numbers by 2-digit numbers using area models II UNJ 2. Multiply 2-digit numbers by 2-digit numbers W8R 3. Multiply 2-digit numbers by 2-digit numbers: word problems SP2 *Also consider* • Box multiplication 6K5
Lesson 7: Estimating Quotients to Solve Problems	1. Estimate quotients QST 2. Estimate quotients: word problems 62P

Visit IXL's interactive skill plan at ca.ixl.com/math/skill-plans/math-makes-sense-grade-5

Lesson 8: Dividing a 3-Digit Number by a 1-digit Number	1. Divide by 1-digit numbers F6Q 2. Divide by 1-digit numbers: word problems 42Y
Lesson 9: Other Strategies for Dividing Whole Numbers	1. Divide by 1-digit numbers: interpret remainders QMA
Lesson 10: Solving Problems	1. Multi-step word problems KPY *Also consider* • Add, subtract, multiply and divide whole numbers L6D • Add, subtract, multiply and divide whole numbers: word problems CQX
Lesson 11: Strategies Toolkit	

Unit 4

Measurement

Textbook section	IXL skills
Lesson 1: Measuring Length	1. Which metric unit of length is appropriate? L2N 2. Compare and convert metric units of length M5C
Lesson 2: Strategies Toolkit	
Lesson 3: Exploring Rectangles with Equal Perimeters	1. Perimeter with whole number side lengths 25Z 2. Area and perimeter: word problems JYX
Lesson 4: Exploring Rectangles with Equal Areas	1. Area of squares and rectangles WNB 2. Rectangles: relationship between perimeter and area LRM
Lesson 5: Exploring Volume	1. Volume of rectangular prisms made of unit cubes F5F
Lesson 6: Measuring Volume in Cubic Centimetres	1. Volume of irregular figures made of unit cubes KBK
Lesson 7: Constructing Rectangular Prisms with a Given Volume	1. Volume of cubes and rectangular prisms MDJ
Lesson 8: Measuring Volume in Cubic Metres	
Lesson 9: Exploring Capacity: The Litre	
Lesson 10: Exploring Capacity: The Millilitre	1. Which metric unit of capacity is appropriate? MBG 2. Compare and convert metric units of capacity 5YN
Lesson 11: Relating Capacity and Volume	

Visit IXL's interactive skill plan at ca.ixl.com/math/skill-plans/math-makes-sense-grade-5

Unit 5

Fractions and Decimals

Textbook section	IXL skills
Lesson 1: Equivalent Fractions	1. Find equivalent fractions using area models 45V 2. Equivalent fractions XHS *Also consider* • Patterns of equivalent fractions KR8 • Graph equivalent fractions on number lines JP5
Lesson 2: Comparing and Ordering Fractions	1. Compare fractions EZS 2. Order fractions with unlike denominators K93 *Also consider* • Graph and compare fractions on number lines 6BL • Order fractions with like numerators HTV
Lesson 3: Strategies Toolkit	
Lesson 4: Relating Fractions to Decimals	1. Model decimals and fractions XXZ 2. Convert fractions to decimals: up to hundredths D5M 3. Convert decimals to fractions: up to hundredths 5A7 *Also consider* • What decimal number is illustrated? BQV • Equivalent decimals up to hundredths PWX
Lesson 5: Fraction and Decimal Benchmarks	1. Compare decimals on number lines 9NK 2. Compare decimal numbers up to hundredths 5C9 3. Put decimals in order: up to hundredths Q7G *Also consider* • Compare decimals using grids VE7

Visit IXL's interactive skill plan at ca.ixl.com/math/skill-plans/math-makes-sense-grade-5

- Compare decimals and fractions on number lines W2A
- Compare decimals and fractions: up to hundredths TH6

Lesson 6: Exploring Thousandths

1. Place values in decimal numbers up to thousandths HDQ
2. Equivalent decimals up to thousandths 6UN

Also consider

- Convert fractions to decimals: up to thousandths 9YA
- Convert decimals to fractions: up to thousandths 9Y4
- Understanding decimals expressed in words: up to thousandths QVQ
- Expanded form of decimals up to thousandths AYP

Lesson 7: Comparing and Ordering Decimals

1. Compare decimal numbers up to thousandths YYS
2. Put decimals in order: up to thousandths H5W

Also consider

- Compare, order and round decimals: word problems KGU

Lesson 8: Using Decimals to Relate Units of Measure

1. Relationship between decimal place values P6J
2. Compare and convert metric units of length M5C

Lesson 9: Relating Fractions and Decimals to Division

1. Relate division and fractions FXD

Lesson 10: Estimating Sums and Differences

1. Estimate sums and differences of decimals using rounding: up to hundredths 5FJ
2. Estimate sums and differences of decimals using rounding: up to thousandths 9GZ

Also consider

- Estimate sums and differences of decimals using benchmarks ZRB

Lesson 11: Adding Decimals

1. Add decimal numbers up to hundredths using blocks PJM
2. Add decimal numbers up to hundredths 9Q7

Lesson 12: Subtracting Decimals

1. Subtract decimal numbers up to hundredths 92T

Also consider

- Add and subtract decimal numbers up to hundredths KZQ
- Add and subtract decimals up to hundredths: word problems 9H6

Lesson 13: Adding and Subtracting Decimals

1. Add and subtract decimal numbers up to thousandths DPN
2. Add and subtract decimals up to thousandths: word problems PH8

Also consider

- Add decimal numbers up to thousandths 5AM
- Subtract decimal numbers up to thousandths EFA

Unit 6

Geometry

Textbook section	IXL skills
Lesson 1: Describing Shapes	1. Parallel sides in quadrilaterals WBU
Lesson 2: Investigating Perpendicular Sides	1. Parallel, perpendicular and intersecting lines LYF
Lesson 3: Investigating Quadrilaterals	1. Identify parallelograms H63 2. Identify trapezoids F7X 3. Identify rectangles TJE 4. Identify rhombuses 5M3 *Also consider* • Classify quadrilaterals V7Q
Lesson 4: Other Attributes of Quadrilaterals	1. Pick all the names for a quadrilateral 59Y 2. Describe relationships among quadrilaterals NLQ 3. Identify the relationships between quadrilaterals J8B *Also consider* • Lines of symmetry C55
Lesson 5: Strategies Toolkit	
Lesson 6: Exploring Faces and Edges of Objects	1. Identify three-dimensional figures 5ZF *Also consider* • Count vertices, edges and faces 6CS
Lesson 7: Drawing Objects	1. Identify faces of three-dimensional figures VZW

Unit7

Statistics and Probability

Textbook section	IXL skills
Lesson 1: First-Hand Data and Second-Hand Data	1. Read a table VCE 2. Interpret frequency tables: one-step problems 2C9 *Also consider* • Create frequency tables EJ7
Lesson 2: Interpreting Double Bar Graphs	1. Interpret bar graphs CMV 2. Interpret double bar graphs HVR
Lesson 3: Constructing Double Bar Graphs	1. Complete bar graphs HLT 2. Complete double bar graphs LBQ
Lesson 4: The Language of Probability	1. Certain, probable, unlikely and impossible 2K8
Lesson 5: Using Spinners to Compare Likelihoods	1. Understanding probability T7F
Lesson 6: Conducting Experiments	1. Make predictions 5QG
Lesson 7: Designing Experiments	
Lesson 8: Strategies Toolkit	

Unit 8

Transformations

Textbook section	IXL skills
Lesson 1: Translations	
Lesson 2: Strategies Toolkit	
Lesson 3: Reflections	
Lesson 4: Rotations	1. Reflection, rotation and translation RBV 2. Transformations on the coordinate plane ZHS
Lesson 5: Exploring Different Points of Rotation	