IXL Skill Plan for the Connecticut Comprehensive Assessment Program

Smarter Balanced Summative Assessments - Math 4th Grade

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/connecticut-smarter-balanced-summative-assessments-grade-4

Claim 1

Concepts and Procedures

Priority Cluster

Standard	IXL skills
Operations and Algebraic Thinking	
Target A: Use the four operations with whole numbers to solve problems.	1. Compare numbers using multiplication GGE 2. Add, subtract, multiply, and divide CNC
Number and Operations – Base Ten	
Target D: Generalize place value understanding for multi-digit whole numbers.	1. Relationship between place values 9DJ 2. Place value review: expanded form, rounding, and comparing CVV
Target E: Use place value understanding and properties of operations to perform multi-digit arithmetic.	1. Add and subtract numbers up to five digits CFX 2. Multiply 1-digit or 2-digit numbers by 2-digit or 3-digit numbers 8ZB 3. Divide larger numbers by 1-digit numbers GE8
Number and Operations – Fractions	
Target F: Extend understanding of fraction equivalence and ordering.	1. Identify equivalent fractions GSG 2. Compare fractions 99U
Target G: Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	1. Add and subtract fractions with like denominators FXD 2. Multiply fractions by whole numbers JLH
Target H: Understand decimal notation for fractions, and compare decimal fractions.	1. Convert fractions and mixed numbers to decimals - denominators of 10 and 100 6P7 2. Compare decimal numbers DY5

Supporting Cluster

Standard	IXL skills
Operations and Algebraic Thinking	
Target B: Gain familiarity with factors and multiples.	1. Identify factors 2S9 2. Choose the multiples of a given number up to 10 EFB 3. Prime and composite: up to 100 L9R
Target C: Generate and analyze patterns.	1. Use a rule to complete a number pattern 5P2 2. Extend growing shape patterns NVV 3. What is true about the given pattern? C9H
Measurement and Data	
Target I: Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	1. Convert measurement units AXC 2. Find the area or missing side length of a rectangle 9E6 3. Measurement word problems 2PY
Target J: Represent and interpret data.	1. Create and interpret line plots with fractions QQB
Target K: Geometric measurement: understand concepts of angle and measure angles.	1. Measure angles with a protractor NCN 2. Adjacent angles VJY
Geometry	
Target L: Draw and identify lines and angles, and classify shapes by properties of their lines and angles.	1. Parallel, perpendicular, and intersecting lines 8VQ 2. Acute, obtuse, and right triangles 7QK 3. Pick all the names for a quadrilateral 6CT 4. Symmetry review 5FG

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Claims 2 & 4

Problem Solving / Modeling and Data Analysis

Problem Solving

Standard	IXL skills
Target A: Apply mathematics to solve well-posed problems arising in everyday life, society, and the workplace.	1. Multi-step word problems EA9 2. Elapsed time: word problems VCC
Target B: Select and use appropriate tools strategically.	1. Multi-step word problems with strip diagrams CZQ
Target C: Interpret results in the context of a situation.	1. Compare numbers using multiplication: word problems QKB 2. Multiply fractions by whole numbers: word problems LX8 3. Multi-step word problems involving remainders SLS
Target D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flow charts, or formulas).	1. Write equations to represent word problems 5SJ

Modeling and Data Analysis

Standard	IXL skills
Target A: Apply mathematics to solve problems arising in everyday life, society, and the workplace.	1. Multiply 1-digit numbers by 3-digit or 4-digit numbers: multi-step word problems M9R 2. Add and subtract mixed numbers with like denominators: word problems 6KM
Target B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem.	1. Use fractions to find the measure of an angle Q68 2. Angle measures: word problems YUA
Target C: State logical assumptions being used.	1. Rectangles: relationship between perimeter and area word problems S9M

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Target D: Interpret results in the context of a situation.	1. Use area and perimeter to determine cost 5GF
Target E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon.	1. Find start and end times: multi-step word problems ZQP
Target F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flow charts, or formulas).	1. Area and perimeter: word problems LTP
Target G: Identify, analyze, and synthesize relevant external resources to pose or solve problems.	1. Multiply fractions and mixed numbers by whole numbers in recipes 7B3 2. Measurement word problems with fractions UST

Claim 3

Communicating Reasoning

Communicating Reasoning

Standard	IXL skills
Target A: Test propositions or conjectures with specific examples.	1. Estimate sums, differences, products, and quotients: word problems CRD 2. Compare fractions using benchmarks EHJ
Target B: Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures.	1. Determine whether the sum or difference of two fractions is reasonable 6GG 2. Multi-step word problems: identify reasonable answers K6X
Target C: State logical assumptions being used.	1. Word problems with extra or missing information X64
Target D: Use the technique of breaking an argument into cases.	1. Decompose fractions multiple ways UEW 2. Multiply fractions by whole numbers: sorting X48
Target E: Distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in the argument—explain what it is.	1. Identify fraction expressions with a particular sum: denominators of 10 and 100 TZH
Target F: Base arguments on concrete referents such as objects, drawings, diagrams, and actions.	1. Graph and order fractions on number lines 7GK 2. Compare decimals using models CV7