

Connecticut Mathematics Model Curricula Alignment

Resource Name: HMH Into Math Grade 4

Alignment Grade 4				
Model Unit Name	Model Unit Standards	Resource Unit(s) Number	Resources Lessons	Pacing
<i>This is the title of the unit in the model curricula</i>	<i>These are the standards addressed in the unit</i>	<i>This is the unit(s) that aligns with the model unit from the resource</i>	<i>These are the lessons from the identified units that align to the standards within the model unit</i>	<i>This is the expected number of days for instruction</i>
Understanding and Using Place Value to Multiply and Divide	4.NBT.A.1 4.NBT.A.2 4.NBT.A.3 4.NBT.B.5 4.NBT.B.6	Module 1 Module 1 Modules 1, 4, & 8 Modules 4, 5, & 8 Modules 4, 6, & 7	1.1, 1.3 1.2, 1.4 1.5, 4.3, 8.2 4.1, 4.3, 4.5, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 8.1, 8.3, 8.4, 8.5, 8.6 4.2, 4.4, 4.5, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 7.1, 7.2, 7.3	3 Days 2 Days 4 Days 2 Weeks 4 Days 2 Weeks 3 Days
Factors and Multiples	4.OA.A.1 4.OA.B.4 4.OA.C.5	Module 3 Module 10 Module 10 & 18	3.1 10.1, 10.2, 10.3, 10.4 10.5, 18.3	1 Day 1 Week 2 Days
Multi-Digit Whole Number Computation	4.NBT.B.4 4.OA.A.2 4.OA.A.3	Module 2 Module 3 Modules 3, 5, 6, 7, & 8	2.1, 2.2, 2.3 3.1, 3.2, 3.3, 3.4, 3.5 3.5, 5.7, 6.3, 7.4, 8.7	3 Days 1 Week 1 Week
Comparing Fractions and Understanding Decimal Notation	4.NF.A.1 4.NF.A.2 4.NF.C.5 4.NF.C.6 4.NF.C.7	Module 11 Module 11 Module 12 & 14 Module 12 Module 12	11.3, 11.4, 11.5 11.1, 11.2, 11.6, 11.7 12.3, 14.6 12.1, 12.2, 12.3, 12.5 12.4	3 Days 4 Days 2 Days 4 Days 1 Day
Building Understanding of Addition, Subtraction and Multiplication of Fractions	4.NF.B.3 4.NF.B.4	Module 14 & 15 Module 16	14.1, 14.2, 14.3, 14.4, 14.5, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6 16.1, 16.2, 16.3, 16.4	2 Weeks 2 Days 1 Week
Solving Problems Involving Measurement and Data	4.MD.A.1 4.MD.A.2 4.MD.A.3	Module 19, 20, & 21 Module 12, 19, 20, & 21 Module 2 & 9	19.1, 19.2, 19.3, 19.4, 20.1, 20.2, 20.3, 21.1 12.6, 19.5, 20.4, 21.2, 21.3, 21.4 2.4, 9.1, 9.2, 9.3, 9.4	1 Week 4 Days 1 Week 1 Week

Exploring Angles and Angle Measurement	4.MD.C.5 4.MD.C.6 4.MD.C.7	Module 13 Module 13 & 17 Module 13	13.2, 13.3, 13.4 13.5, 17.5 13.6, 13.7	4 Days 2 Days 2 Days
Understanding Properties of Two-Dimensional Figures	4.G.A.1 4.G.A.2 4.G.A.3	Module 13 & 17 Module 17 Module 18	13.1, 13.5, 17.1, 17.2, 17.3, 17.4, 17.5 17.2, 17.3, 17.4 18.1, 18.2	1 Week 2 Days 3 Days 3 Days

Scope and Sequence

If a district uses this resource to implement the state model curriculum for grade 4, the following scope and sequence should be followed to ensure alignment and attention to the progressions of mathematics.

Order	Unit Number/Title and Lessons	Lesson Objectives	# of days (assume 1 hour of instruction)	Number of weeks
1	Lesson 1.1 Understand Place Value Relationships	Describe the value of a digit.	2	
2	Lesson 1.2 Read and Write Numbers	Use place-value relationships to read and write multi-digit whole numbers to 1,000,000 in different forms.	1	
3	Lesson 1.3 Regroup and Rename Numbers	Group multi-digit whole numbers in different ways to 1,000,000.	1	
4	Lesson 1.4 Compare and Order Numbers	Compare and order whole numbers through 1,000,000.	1	
5	Lesson 1.5 Use Place Value Understanding to Round Numbers	Round whole numbers through 1,000,000.	1	1 Week 1 Day
6	Lesson 2.1 Add Whole Numbers and Assess Reasonableness	Use the standard algorithm to add whole numbers and assess reasonableness using mental math and estimates.	1	

7	Lesson 2.2 Subtract Whole Numbers and Assess Reasonableness	Use the standard algorithm to find the difference between two whole numbers and assess the reasonableness using mental math and estimates.	1	
8	Lesson 2.3 Use Addition and Subtraction to Solve Comparison Problems	Interpret and solve comparison problems using addition and subtraction by drawing bar models.	1	
9	Lesson 2.4 Apply the Perimeter Formula for Rectangles	Use a formula to find the perimeter of a rectangle or to find an unknown side given the perimeter and the length of one side of the rectangle.	1	4 Days
10	Lesson 3.1 Explore Multiplicative Comparisons	Represent and interpret multiplicative comparison problems using drawings and equations.	1	
11	Lesson 3.2 Distinguish Between Multiplicative and Additive Comparisons	Distinguish between, represent, and solve additive and multiplicative comparisons.	1	
12	Lesson 3.3 Use Division to Solve Multiplicative Comparison Problems	Use inverse operations to solve multiplicative comparison problems.	1	
13	Lesson 3.4 Use Comparisons to Solve Problem Situations	Use visual representations and equations to solve additive and	1	

		multiplicative comparison problems.		
14	Lesson 3.5 Solve Multistep Problems with Multiplication and Division	Use strategies to solve multistep multiplication and division problems.	1	1 Week
15	Lesson 4.1 Explore Multiplication Patterns with Tens, Hundreds, and Thousands	Use place value and patterns to multiply by tens, hundreds, and thousands.	1	
16	Lesson 4.2 Explore Division Patterns with Tens, Hundreds, and Thousands	Use place value and patterns to divide tens, hundreds, and thousands.	1	
17	Lesson 4.3 Estimate Products by 1-Digit Numbers	Use estimation to solve problems and to check if the product is reasonable.	1	
18	Lesson 4.4 Estimate Quotients Using Compatible Numbers	Use estimation to solve problems and to check if the quotient is reasonable.	1	
19	Lesson 4.5 Use Mental Math Strategies for Multiplication and Division	Use mental math to solve multiplication and division problems.	1	1 Week
20	Lesson 5.1 Represent Multiplication	Use flexible thinking to represent multiplication and find the product.	1	
21	Lesson 5.2 Use Area Models and the Distributive Property to Multiply	Use the Distributive Property to multiply 2-digit numbers by 1-digit numbers.	1	

22	Lesson 5.3 Multiply Using Expanded Form	Use expanded form to multiply a multi-digit number by a 1-digit number.	1	
23	Lesson 5.4 Multiply Using Partial Products	Connect place value and the Distributive Property to recording partial products.	1	
24	Lesson 5.5 Use Place Value to Multiply 2-Digit Numbers	Use place value and regrouping to multiply a 2-digit number by a 1-digit number.	1	
25	Lesson 5.6 Multiply 3-Digit and 4-Digit Numbers	Use place value and regrouping to multiply a 3-digit number by a 1-digit number and a 4-digit number by a 1-digit number.	1	
26	Lesson 5.7 Use Equations to Solve Multistep Problems	Use equations to model and solve multistep problems.	1	1 Week 2 Days
27	Lesson 6.1 Represent Division	Use place value and visual models to represent division by 1-digit numbers.	1	
28	Lesson 6.2 Investigate Remainders	Use visual models to divide numbers that do not divide evenly.	1	
29	Lesson 6.3 Interpret Remainders	Interpret remainders and use them to solve division problems.	1	
30	Lesson 6.4 Use Area Models and the Distributive Property to Divide	Use area models and the Distributive Property to solve division problems.	1	
31	Lesson 6.5 Divide Using Repeated Subtraction	Use repeated subtraction to divide.	1	

32	Lesson 6.6 Divide Using Partial Quotients	Use partial quotients to solve division problems.	1	1 Week 1 Day
33	Lesson 7.1 Represent Division with Regrouping	Use concrete and visual models to show division with regrouping and record the division.	1	
34	Lesson 7.2 Use Place Value to Divide	Use place value to divide and to determine how many digits a whole-number quotient has.	2	
35	Lesson 7.3 Divide by 1-Digit Numbers	Use place value and the relationship between multiplication and division to divide multi-digit numbers by 1-digit numbers.	1	
36	Lesson 7.4 Solve Multistep Multiplication and Division Problems	Use multiplication and division to solve multistep word problems.	1	1 Week
37	Lesson 8.1 Multiply with Tens	Use strategies to multiply with tens.	1	
38	Lesson 8.2 Estimate Products	Use strategies to estimate products.	2	
39	Lesson 8.3 Relate Area Models and Partial Products	Use area models and partial products to multiply two 2-digit numbers.	1	
40	Lesson 8.4 Multiply Using Partial Products	Use place value and partial products to multiply two 2-digit numbers.	1	
41	Lesson 8.5 Multiply with Regrouping	Use regrouping to multiply two 2-digit numbers.	1	
42	Lesson 8.6 Choose a Multiplication Strategy	Use different strategies to multiply two 2-digit numbers.	1	

43	Lesson 8.7 Solve Multistep Problems and Assess Reasonableness	Solve multistep problems and assess the reasonableness of solutions.	1	1 Week 3 Days
44	Lesson 9.1 Apply the Area Formula to Rectangles	Apply the area formula to find the area of rectangles.	1	
45	Lesson 9.2 Find the Area of Combined Rectangles	Find the area of combined rectangles using addition or subtraction and the area formula.	1	
46	Lesson 9.3 Find Unknown Measures	Solve problems involving unknown measures in rectangles.	1	
47	Lesson 9.4 Solve Area Problems	Use the area formula to solve problems.	1	4 Days
48	Lesson 10.1 Investigate Factors	Use concrete and visual models to identify all the factors of numbers up to 100.	1	
49	Lesson 10.2 Identify Factors	Use division and divisibility rules to determine if a number is a factor of a given number.	2	
50	Lesson 10.3 Generate Multiples Using Factors	Use factors to determine if a number is a multiple of a given number, and list multiples of the given number.	1	
51	Lesson 10.4 Identify Prime and Composite Numbers	Use factors and division to identify prime and composite numbers.	1	
52	Lesson 10.5 Generate and	Use a rule to find numbers in a pattern and identify other features of	1	1 Week 1 Day

	Analyze Number Patterns	the pattern not stated in the rule.		
53	Lesson 11.1 Compare Fractions Using Visual Models	Use visual models to compare fractions with unlike numerators and denominators.	1	
54	Lesson 11.2 Compare Fractions Using Benchmarks	Use benchmarks to compare fractions with different numerators and different denominators.	1	
55	Lesson 11.3 Explain Fraction Equivalence Using Visual Models	Use visual fraction models to explain why two fractions are or are not equivalent.	1	
56	Lesson 11.4 Generate Equivalent Fractions	Use multiplication and division to identify and generate equivalent fractions.	1	
57	Lesson 11.5 Use Common Multiples to Write Equivalent Fractions	Use common multiples to represent a pair of fractions as equivalent fractions with common denominators or common numerators.	1	
58	Lesson 11.6 Compare Fractions Using Common Numerators and Denominators	Write equivalent fractions to compare fractions using common numerators or common denominators.	1	
59	Lesson 11.7 Use Comparisons to Order Fractions	Use various comparison strategies to order sets of fractions.	1	1 Week 2 Days
60	Lesson 12.1 Represent Tenths as Fractions and Decimals	Record tenths as fractions and as decimals.	1	
61	Lesson 12.2 Represent Hundredths as	Record hundredths as fractions and as decimals.	1	

	Fractions and Decimals			
62	Lesson 12.3 Identify Equivalent Fractions and Decimals	Express equivalent fractions as decimals.	1	
63	Lesson 12.4 Compare Decimals	Compare decimals using visual models, number lines, or place value.	1	
64	Lesson 12.5 Relate Fractions, Decimals, and Money	Find relationships among fractions, decimals, and money.	1	
65	Lesson 12.6 Solve Multistep Money Problems	Solve problems relating to money by representing the problems using a visual model and a decimal dollar amount.	1	1 Week 1 Day
66	Lesson 13.1 Explore Lines, Rays, and Angles	Identify, name, and draw points, lines, line segments, rays, and angles.	1	
67	Lesson 13.2 Explore Angles	Measure an angle using unit angles.	1	
68	Lesson 13.3 Relate Angles to Fractional Parts of a Circle	Measure an angle as it relates to the fractional parts of a circle.	1	
69	Lesson 13.4 Relate Degrees to Fractional Parts of a Circle	Relate degrees to fractional parts of a circle.	2	
70	Lesson 13.5 Measure and Draw Angles Using a Protractor	Use a protractor to measure and draw angles.	1	

71	Lesson 13.6 Join and Separate Angles	Find the measures of the angles that are joined or separated.	1	
72	Lesson 13.7 Find Unknown Angle Measures	Use the relationship between the known angles to find the measure of unknown angles.	1	1 Week 3 Days
73	Lesson 14.1 Decompose Fractions into Sums	Write fractions in multiple ways as the sum of fractions with the same denominator.	1	
74	Lesson 14.2 Join Parts of the Same Whole	Solve word problems involving addition of fractions with like denominators using visual models.	1	
75	Lesson 14.3 Represent Addition of Fractions	Use visual representations and equations to add fractions with the same denominator.	1	
76	Lesson 14.4 Separate Parts of the Same Whole	Solve word problems involving subtraction of fractions with like denominators using visual representations.	1	
77	Lesson 14.5 Represent Subtraction of Fractions	Solve word problems involving subtraction of fractions with like denominators using visual representations and equations.	1	
78	Lesson 14.6 Add Fractional Parts of 10 and 100	Use a common denominator of 100 to add two fractions with denominators of 10 and 100.	1	1 Week 1 Day

79	Lesson 15.1 Add and Subtract Fractions to Solve Problems	Apply skills in adding and subtracting fractions with like denominators to those whose numerators are greater than their denominators.	1	
80	Lesson 15.2 Rename Fractions and Mixed Numbers	Rename mixed numbers as fractions greater than one and vice versa by using representations such as visual models or fractions bars.	1	
81	Lesson 15.3 Add and Subtract Mixed Numbers to Solve Problems	Add and subtract mixed numbers with like denominators.	2	
82	Lesson 15.4 Rename Mixed Numbers to Subtract	Rename mixed numbers to subtract.	1	
83	Lesson 15.5 Apply Properties of Addition to Add Fractions and Mixed Numbers	Use the Associative and Commutative Properties to add fractions and mixed numbers mentally.	1	
84	Lesson 15.6 Practice Solving Fraction Problems	Practice solving problems involving addition and subtraction of fractions and mixed numbers with like denominators.	1	1 Week 2 Days
85	Lesson 16.1 Understand Multiples of Unit Fractions	Write a fraction as a multiple of a whole number and a unit fraction.	1	
86	Lesson 16.2 Find Multiples of Fractions	Write the product of a whole number and a fraction as the product of	1	

		a whole number and a unit fraction.		
87	Lesson 16.3 Represent Multiplication of a Fraction by a Whole Number	Use a visual representation to find the product of a whole number and a fraction, and model it with numbers and symbols.	2	
88	Lesson 16.4 Solve Problems Using Multiplication of a Fraction or Mixed Number by a Whole Number	Find the solutions to problems involving multiplication of fractions or mixed numbers and whole numbers.	1	1 Week
90	Lesson 17.1 Identify and Draw Perpendicular and Parallel Lines	Identify and draw perpendicular and parallel lines.	1	
91	Lesson 17.2 Identify and Classify Triangles by Angles	Identify and classify triangles by the size of their angles.	1	
92	Lesson 17.3 Identify and Classify Triangles by Sides	Identify and classify triangles by their side lengths.	1	
93	Lesson 17.4 Identify and Classify Quadrilaterals	Identify and classify quadrilaterals.	1	
94	Lesson 17.5 Measure and Draw Angles of Two-Dimensional Figures	Measure and draw angles of two-dimensional figures.	1	1 Week
95	Lesson 18.1 Recognize Lines of Symmetry	Identify and describe line symmetry in two-dimensional figures.	1	

96	Lesson 18.2 Identify and Draw Lines of Symmetry	Find or draw a line of symmetry in two- dimensional figures.	2	
97	Lesson 18.3 Generate and Identify Shape Patterns	Identify, describe, and extend patterns involving shapes.	1	4 Days
98	Lesson 19.1 Identify Customary Measurement Benchmarks	Use benchmarks to describe the relative sizes of customary measurement units.	1	
99	Lesson 19.2 Compare Customary Units of Length	Use visual representations to describe and compare customary units of length.	2	
100	Lesson 19.3 Compare Customary Units of Weight	Use visual representations to describe and compare customary units of weight.	1	
101	Lesson 19.4 Compare Customary Units of Liquid Volume	Use visual representations to describe and compare customary units of liquid volume.	1	
102	Lesson 19.5 Represent and Interpret Measurement Data in Line Plots	Make and interpret line plots with fractional data.	1	1 Week 1 Day
103	Lesson 20.1 Identify Metric Measurement Benchmarks	Use benchmarks to describe the relative sizes of metric measurement units.	1	
104	Lesson 20.2 Compare Metric Units of Length	Use visual representations to describe and compare metric units of length.	1	

105	Lesson 20.3 Compare Metric Units of Mass and Liquid Volume	Use visual representations to describe and compare metric units of mass and liquid volume.	1	
106	Lesson 20.4 Solve Problems Using Measurements	Solve problems involving metric and customary units of measure.	1	4 Days
107	Lesson 21.1 Compare Units of Time	Use visual representations and reasoning to compare measurements of time.	1	
108	Lesson 21.2 Solve Problems Involving Elapsed Time	Solve problems involving elapsed time.	1	
109	Lesson 21.3 Solve Problems Involving Start Time and End Time	Solve problems involving start time and end time.	1	
110	Lesson 21.4 Practice with Mixed Measures	Solve problems involving mixed measures.	1	4 Days

Supports of Diversity, Equity and Inclusion

Please provide any information relative to supporting culturally responsive instruction, multi-language learners, and students with disabilities

Into Math is a comprehensive instructional program that is specifically designed to support the diverse needs of all students, including those who are culturally and linguistically diverse, as well as those who need more supports. Into Math is built on a foundation of research-based instructional strategies and provides a wealth of resources for teachers to support the learning of all students.

One of the key features of Into Math is the inclusion of learning mindset prompts, which encourage students to develop a growth mindset and believe in their ability to succeed in mathematics. These prompts are integrated throughout the program and provide students with the tools they need to persevere through challenges and become confident and successful learners.

In addition to the learning mindset prompts, Into Math also includes guiding questions and supports for teachers to identify students who may require additional assistance or support. This allows teachers to provide targeted in time support and interventions to those students who need it most. Detailed information is provided to teachers about students' prior learning, current development, and future connections to be made, which enables teachers to differentiate instruction effectively.

A strong emphasis is placed on language development and provides teachers with a variety of resources, such as Three Reads, which support sense making, and suggestions for connecting language to various concepts, as well as key academic vocabulary for each module. These resources are designed to help teachers support the language development of multilingual learners and ensure that they have the language skills they need to access the mathematics curriculum.

Additionally, Into Math is designed to be culturally responsive and inclusive to all students. It provides teachers with resources and strategies to address cultural and linguistic diversity, and strategies for building positive relationships with students. This approach to instruction acknowledges and values the cultures, languages, and backgrounds of all students and helps to create an inclusive and equitable learning environment.

Into Math offers tiered interventions, additional practice, and math center options to support students with various learning needs. These interventions are designed to provide students with additional support and practice in areas where they may be struggling, and the math center options provide students with hands-on, interactive activities that help to make math more engaging and accessible.