

Connecticut Mathematics Model Curricula Alignment

Resource Name: HMH Into Math Grade 5

Alignment Grade 5				
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>
Area/Coordinate Grid	5.G.A.1	Module 19	19.1	1 Day
	5.G.A.2	Module 19	19.2, 19.3	2 Days
Whole Number Multiplication/Volume	5.NBT.B.5	Module 1	1.4, 1.5, 1.6	3 Days
	5.MD.C.3	Module 5	5.1, 5.2	2 Days
	5.MD.C.4	Module 5	5.2, 5.3	2 Days
	5.MD.C.5	Module 5	5.4, 5.5, 5.6	5 Days
Whole Number Division and Fractions as Division	5.NBT.6	Module 2 & 3	2.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3, 3.4	1 Week 4 Days
	5.NF.B.3	Module 3 & 10	3.2, 10.1	2 Days
Add and Subtract Fractions/Line Plots	5.NF.A.1	Module 6 & 7	6.4, 7.2, 7.3, 7.4, 7.5	1 Week 1 Day
	F.NF.A.2	Module 6 & 7	6.1, 6.2, 6.3, 7.1, 7.3, 7.6	1 Week 1 Day
	5.MD.B.2	Module 12	12.3	1 Day
Understanding the Place Value System and Add and Subtract Decimals	5.NBT.A.1	Modules 1 & 13	1.1, 13.1	2 Days
	5.NBT.A.2	Modules, 1, 15, & 17	1.2, 1.3, 15.1, 17.1	1 Week 1 Day
	5.NBT.A.3	Module 13	13.2, 13.4	2 Days
	5.NBT.A.4	Module 13	13.3	1 Day
	5.NBT.B.7	Modules 14, 15, 16, & 17	14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6 16.1, 16.2, 16.3, 17.2, 17.3, 17.4 17.5, 17.6, 17.7	4 Weeks 4 Days
Making Sense of Multiplication of Fractions	5.NF.B.4	Modules 8 & 9	8.1, 8.2, 8.3, 8.4, 8.5, 8.7, 9.1, 9.3, 9.4	2 Weeks 1 Day
	5.NF.B.5	Module 8	8.6	1 Day
	5.NF.B.6	Modules 8 & 9	8.4, 9.1, 9.2, 9.3, 9.4	1 Week
Understanding Division of a Unit Fraction and a Whole Number	5.NF.B.7	Modules 10 & 11	10.2, 10.3, 10.4, 10.5, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6	2 Weeks 1 Day

Multiply and Divide Decimals/Metric Conversions	5.NBT.B.7	Modules 14, 15, 16, & 17	14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 16.1, 16.2, 16.3, 17.2, 17.3, 17.4, 17.5, 17.6, 17.7	4 Weeks 4 Days
	5.MD.A.1	Modules 12 & 18	12.1, 12.2, 12.4, 18.1, 18.2, 18.3	1 Week 2 Days
2-Dimensional Geometry	5.G.B.3	Module 20	20.1, 20.2, 20.3, 20.4	4 Days
	5.G.B.4	Module 20	20.1, 20.2, 20.3, 20.4	4 Days
Algebraic Connections: (Order of Operations, Expressions, Patterns, Coordinate Plane)	5.OA.A.1	Module 4	4.1, 4.3, 4.4	3 Days
	5.OA.A.2	Module 4	4.1, 4.2	2 Days
	5.OA.B.3	Module 19	19.4, 19.5	2 Days
	5.G.A.1	Module 19	19.1	1 Day
	5.G.A.2	Module 19	19.2, 19.3	2 Days

Scope and Sequence

If a district uses this resource to implement the state model curriculum for grade 5, 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 Recognize the 10 to 1 Relationship Among Place-Value Positions	Recognize the 10 to 1 relationship among place-value positions.	1	
2	Lesson 1.2 Use Powers of 10 and Exponents	Write and evaluate repeated factors in exponent form.	1	
3	Lesson 1.3 Use a Pattern to Multiply by Multiples of 10, 100, and 1,000	Use a basic fact and a pattern to multiply mentally by multiples of 10, 100, and 1,000.	1	
4	Lesson 1.4 Multiply by 1-Digit Numbers	Multiply by 1-digit numbers.	1	
5	Lesson 1.5 Multiply by Multi-Digit Numbers	Multiply by 1-digit numbers.	1	
6	Lesson 1.6 Develop Multiplication Fluency	Fluently multiply multi-digit whole numbers to solve multistep problems.	1	1 Week 1 Day
7	Lesson 2.1 Relate Multiplication to Division	Use multiplication to solve division problems.	1	

8	Lesson 2.2 Represent Division with 2-Digit Divisors	Model division of whole numbers by 2-digit divisors using an area model.	2	
9	Lesson 2.3 Estimate with 2-Digit Divisors	Estimate quotients involving 2-digit divisors using compatible numbers.	1	
10	Lesson 2.4 Use Partial Quotients	Use partial quotients to divide by 2-digit divisors.	1	1 Week
11	Lesson 3.1 Divide by 2-Digit Divisors	Divide whole number dividends by 2-digit divisors.	1	
12	Lesson 3.2 Interpret the Remainder	Solve division problems and decide when to write the remainder as a fraction.	1	
13	Lesson 3.3 Adjust Quotients	Adjust the whole-number quotient if the estimate is too high or too low.	1	
14	Lesson 3.4 Practice with Division	Represent a problem with a bar model or an equation and solve a division problem.	1	4 Days
15	Lesson 4.1 Write Numerical Expressions	Write numerical expressions.	1	
16	Lesson 4.2 Interpret Numerical Expressions	Interpret numerical expressions without evaluating them.	1	
17	Lesson 4.3 Evaluate Numerical Expressions	Use the order of operations to evaluate numerical expressions.	1	
18	Lesson 4.4 Use Grouping Symbols	Determine in what order operations must be evaluated when there are grouping symbols.	1	4 Days
19	Lesson 5.1 Use Unit Cubes to Build Solid Figures	Understand unit cubes and how they can be used to build a solid figure.	1	
20	Lesson 5.2 Understand Volume	Find volume by counting the number of unit cubes that fill a right rectangular prism.	1	
21	Lesson 5.3 Estimate Volume	Estimate the volume of a right rectangular prism.	1	

22	Lesson 5.4 Find Volume of Right Rectangular Prisms	Find the volume of a right rectangular prism.	2	
23	Lesson 5.5 Apply Volume Formulas	Use a formula to find the volume of a right rectangular prism.	1	
24	Lesson 5.6 Find Volume of Composed Figures	Find the volume of composed right rectangular prisms.	2	1 Week 3 Days
25	Lesson 6.1 Represent Fraction Sums and Differences	Use visual models to generate fractions having same-sized parts in addition and subtraction expressions when the fractional parts are not the same size.	1	
26	Lesson 6.2 Represent Addition with Different-Sized Parts	Use visual models to add fractions with different-sized parts.	1	
27	Lesson 6.3 Represent Subtraction with Different-Sized Parts	Use visual models to subtract fractions that have different-sized parts.	1	
28	Lesson 6.4 Rewrite Fractions with a Common Denominator	Use equivalent fractions to rewrite pairs of fractions with a common denominator.	1	4 Days
29	Lesson 7.1 Use Benchmarks and Number Sense to Estimate	Use benchmark fractions to estimate sums and differences of fractions with unlike denominators.	1	
30	Lesson 7.2 Assess Reasonableness of Fraction Sums and Differences	Add and subtract fractions with unlike denominators using common denominators.	1	
31	Lesson 7.3 Assess Reasonableness of Mixed Number Sums and Differences	Add and subtract mixed numbers with unlike denominators.	1	
32	Lesson 7.4 Rename Mixed Numbers to Subtract	Rename to find the difference of two mixed numbers.	2	

33	Lesson 7.5 Apply Properties of Addition	Add fractions and mixed numbers with unlike denominators using properties.	1	
34	Lesson 7.6 Practice Addition and Subtraction Using Equations	Write equations to solve addition and subtraction problems.	1	1 Week 2 Days
35	Lesson 8.1 Explore Groups of Equal Shares to Show Multiplication	Represent a fractional part of a group.	1	
36	Lesson 8.2 Represent Multiplication of Whole Numbers by Fractions	Represent the multiplication of a whole number by a fraction.	2	
37	Lesson 8.3 Represent Multiplication with Unit Fractions	Use a visual model to represent multiplication of unit fractions.	1	
38	Lesson 8.4 Represent Multiplication of Fractions	Use a visual model to represent multiplication of fractions.	1	
39	Lesson 8.5 Use Representations of Area to Develop Procedures	Multiply fractions using an area model.	2	
40	Lesson 8.6 Interpret Fraction Multiplication as Scaling	Relate the size of the product compared to the size of one factor when multiplying fractions.	1	
41	Lesson 8.7 Multiply Fractions	Multiply with fractions using an algorithm.	1	1 Week 4 Days
42	Lesson 9.1 Explore Area and Mixed Numbers	Use an area model to represent multiplication of mixed numbers.	1	
43	Lesson 9.2 Multiply Mixed Numbers	Multiply a mixed number by another mixed number.	1	
44	Lesson 9.3 Practice Multiplication with	Multiply with mixed numbers.	1	

	Fractions and Mixed Numbers			
45	Lesson 9.4 Apply Fraction Multiplication to Find Area	Solve area problems with fractions and mixed numbers.	1	4 Days
46	Lesson 10.1 Interpret a Fraction as Division	Interpret a fraction as division and solve whole-number division problems that result in a fraction or mixed number.	1	
47	Lesson 10.2 Represent and Find the Size of Equal Parts	Divide a unit fraction by a whole number to find the size of the equal parts by using visual fraction models.	1	
48	Lesson 10.3 Use Representations of Division of Unit Fractions by Whole Numbers	Write a word problem and use a visual model to interpret the division of a unit fraction by a whole number.	2	
49	Lesson 10.4 Represent and Find the Number of Equal-Sized Parts	Divide a whole number by a unit fraction to find the number of equal-sized parts by using visual models.	1	
50	Lesson 10.5 Use Representations of Division of Whole Numbers by Unit Fractions	Write a word problem and use a visual model to interpret the division of a whole number by a unit fraction.	2	1 Week 2 Days
51	Lesson 11.1 Relate Multiplication and Division of Fractions	Divide a whole number by a fraction, and divide a fraction by a whole number.	1	
52	Lesson 11.2 Divide Whole Numbers by Unit Fractions	Represent division of a whole number by a unit fraction by using visual fraction models and equations.	1	
53	Lesson 11.3 Interpret and Solve Division of a Whole Number by a Unit Fraction	Write a word problem for a given equation, and use a visual fraction model to represent the quotient.	1	
54	Lesson 11.4 Divide Unit fractions by Whole Numbers	Represent division of a unit fraction by a whole number by using visual models and equations.	1	

55	Lesson 11.5 Interpret and Solve Division of a Unit Fraction by a Whole Number	Write a word problem for a given equation, and use a visual fraction model to represent the quotient.	1	
56	Lesson 11.6 Solve Division Problems Using Visual Models and Equations	Solve problems involving the division of fractions and whole numbers.	1	1 Week 1 Day
57	Lesson 12.1 Convert Customary Measurements	Compare and convert customary units of measurement.	2	
58	Lesson 12.2 Solve Multistep Customary Measurement Problems	Convert measurement units to solve multistep problems.	1	
59	Lesson 12.3 Represent and Interpret Measurement Data in Line Plots	Make and use line plots with data given in fractions to solve problems.	1	
60	Lesson 12.4 Convert Time and Find Elapsed Time	Convert units of time to solve elapsed time problems.	1	1 Week
61	Lesson 13.1 Understand Thousandths	Recognize the 10 to 1 relationship among decimal place-value positions.	1	
62	Lesson 13.2 Read and Write Decimals to Thousandths	Read and write decimals to thousandths.	1	
63	Lesson 13.3 Round Decimals	Round decimals to any place.	1	
64	Lesson 13.4 Compare and Order Decimals	Compare and order decimals to thousandths using place value.	1	4 Days
65	Lesson 14.1 Represent Decimal Addition	Represent decimal addition using concrete models or drawings.	1	
66	Lesson 14.2 Represent Decimal Subtraction	Represent decimal subtraction using concrete models or drawings.	1	
67	Lesson 14.3 Assess Reasonableness of Sums and Differences	Assess the reasonableness of decimal sums and differences.	1	

68	Lesson 14.4 Add Decimals	Add decimals using a written method and strategies based on place value.	1	
69	Lesson 14.5 Subtract Decimals	Subtract decimals using a written method and strategies based on place value.	1	
70	Lesson 14.6 Use Strategies and Reasoning to Add and Subtract	Use strategies based on properties and reasoning to add and subtract decimals.	1	1 Week 1 Day
71	Lesson 15.1 Understand Decimal Multiplication Patterns	Find patterns in products when multiplying by powers of 10.	2	
72	Lesson 15.2 Represent Multiplication with Decimals and Whole Numbers	Represent multiplication of whole numbers and decimals less than 1.	1	
73	Lesson 15.3 Assess Reasonableness of Products	Assess the reasonableness of the product of a decimal less than 1 and a whole number.	1	
74	Lesson 15.4 Multiply Decimals by 1-Digit Whole Numbers	Multiply a decimal and a whole number using properties and place value.	2	
75	Lesson 15.5 Multiply Decimals by 2-Digit Whole Numbers	Multiply a decimal and a whole number using properties and place value.	1	
76	Lesson 15.6 Solve Problems Using Bar Models	Solve problems using a bar model to show the solution process.	1	1 Week 3 Days
77	Lesson 16.1 Represent Decimal Multiplication	Use a visual model to multiply decimals.	1	
78	Lesson 16.2 Multiply Decimals	Place the decimal point in decimal multiplication.	1	
79	Lesson 16.3 Multiply Decimals with Zeros in the Product	Multiply decimals with zeros in the product.	1	3 Days

80	Lesson 17.1 Understand Decimal Division Patterns	Find patterns in quotients when dividing by powers of 10.	2	
81	Lesson 17.2 Represent Division of Decimals by Whole Numbers	Use a concrete or visual model to show division of decimals by whole numbers.	1	
82	Lesson 17.3 Assess Reasonableness of Quotients	Estimate decimal quotients.	1	
83	Lesson 17.4 Divide Decimals by Whole Numbers	Divide decimals by whole numbers.	1	
84	Lesson 17.5 Represent Decimal Division	Represent division by decimals using a concrete or visual model.	2	
85	Lesson 17.6 Divide Decimals	Place the decimal point in decimal division.	1	
86	Lesson 17.7 Write Zeros in the Dividend	Write a zero in the dividend to find a quotient.	1	1 Week 4 Days
87	Lesson 18.1 Understand Metric Conversions	Compare and convert metric units.	1	
88	Lesson 18.2 Solve Customary and Metric Conversion Problems	Solve problems involving customary and metric conversions.	1	
89	Lesson 18.3 Solve Multistep Measurement Problems	Convert measurement units to solve multistep problems.	1	3 Days
90	Lesson 19.1 Describe a Coordinate System	Identify and describe a point in a coordinate system.	1	
91	Lesson 19.2 Understand Ordered Pairs	Graph points on a coordinate grid and interpret the coordinate values.	1	
92	Lesson 19.3 Use Ordered Pairs to Represent Problems	Use coordinate graphing to represent and solve problems.	1	
93	Lesson 19.4 Generate and Identify Numerical Patterns	Use two rules to generate numerical patterns and identify the relationship	1	

		between the corresponding terms in the patterns.		
94	Lesson 19.5 Identify and Graph Relationships and Patterns	Form ordered pairs from two numerical patterns and graph the ordered pairs on a coordinate grid.	1	1 Week
95	Lesson 20.1 Identify and Classify Polygons	Identify and classify polygons.	1	
96	Lesson 20.2 Classify and Organize Triangles	Classify and draw triangles using their attributes.	1	
97	Lesson 20.3 Classify and Organize Quadrilaterals	Classify and compare quadrilaterals using their attributes.	1	
98	Lesson 20.4 Use Venn Diagrams to Classify Two-Dimensional Figures	Compare and classify two-dimensional figures using Venn diagrams.	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.