

Connecticut Mathematics Model Curriculum Alignment

Resource Name:HMH Into Math Grade 6

Alignment Grade 6

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>
Operating with Positive Rational Numbers	6.NS.A.1 6.NS.B.2 6.NS.B.3 6.NS.B.4 6.G.A.2	Module 3 Module 4 Module 4 Module 2 & 3 Module 13	3.1, 3.2, 3.3, 3.4, 3.5 4.3 4.1, 4.2, 4.4, 4.5 2.3, 2.4, 3.5 13.2, 13.3	1 Week 4 Days 1 Day 4 Days 1 Week 2 Days
Understanding Positive and Negative Numbers	6.NS.C.5 6.NS.C.6 6.NS.C.7 6.NS.C.8	Module 1 Module 1, 2 & 11 Module 1 & 2 Module 11	1.1 1.1, 2.1, 2.2, 11.1, 11.2, 11.3 1.2, 1.3, 2.1, 2.2, 2.3, 2.4 11.3, 11.4	2 Days 2 Weeks 1 Week 3 Days 4 Days
Using Expressions and Equations	6.EE.A.1 6.EE.A.2 6.EE.A.3 6.EE.A.4 6.EE.B.5 6.EE.B.6 6.CC.B.7 6.EE.B.8	Module 8 Module 8, 12 & 13 Module 8 Module 8 Module 9 Module 8 Module 9 Module 9	8.1, 8.2 8.2, 8.3, 8.4, 12.1, 12.2, 12.3, 13.2, 13.3 8.5 8.5 9.1, 9.5 8.3 9.1, 9.2, 9.3, 9.4 9.5	3 Days 2 Weeks 3 Days 2 Days 2 Days 3 Days 1 Day 1 Week 1 Day 2 Days
Applications of Geometry	6.G.A.1 6.G.A.3 6.G.A.4	Module 12 Module 11 Module 13	12.1, 12.2, 12.3, 12.4 11.2, 11.4 13.1	1 Week 3 Days 4 Days 2 Days

Ratios and Rates	6.RP.A.1 6.RP.A.2 6.RP.A.3	Module 5 Module 5 Module 5, 6 & 7	5.1 5.2, 5.4 5.2, 5.3, 5.4, 5.5, 6.1, 6.2, 6.3, 7.1, 7.2, 7.3	1 Day 4 Days 3 Weeks 2 Days
Algebraic Reasoning	6.EE.B.6 6.EE.B.7 6.EE.C.9	Module 8 Module 9 Module 10	8.3 9.1, 9.2, 9.3 10.1, 10.2, 10.3	1 Day 1 Week 1 Week

Statistics and Distributions	6.SP.A.1 6.SP.A.2 6.SP.A.3 6.SP.B.4 6.SP.B.5	Module 14 Module 16 Module 15 & 16 Module 14 & 16 Module 14, 15 & 16	14.1 16.5 15.1, 15.2, 16.4 14.2, 14.3, 16.2 14.1, 15.2, 15.3, 16.1, 16.3, 16.4, 16.5	1 Day 2 Days 4 Days 1 Week 1 Day 2 Weeks
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Scope and Sequence

If a district uses this resource to implement the state model curriculum for grade 6, 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	Number of Days (Assume 1 Hour of Instruction)	Number of Weeks
1	Lesson 1.1 Identify and Interpret Integers	Identify and interpret integers using a number line.	2	
2	Lesson 1.2 Compare and Order Integers on a Number Line	Use number lines to compare and order integers.	2	
3	Lesson 1.3 Find and Apply Absolute Value	Find and use absolute value in real-world situations.	1	Module 1 – 1 Week
4	Lesson 2.1 Interpret Rational Numbers	Graph rational numbers on vertical and horizontal number lines.	1	

5	Lesson 2.2 Compare Rational Numbers on a Number Line	Compare rational numbers using a number line.	1	
6	Lesson 2.3 Find and Apply LCM and GCF	Compare rational numbers using the GCF and LCM.	2	
7	Lesson 2.4 Order Rational Numbers	I can order positive and negative rational numbers of different forms.	1	Module 2 – 1 Week
8	Lesson 3.1 Understand Fraction Division	Divide fractions with the same denominators.	2	
9	Lesson 3.2 Explore Division of Fractions with Unlike Denominators	Divide fractions with unlike denominators	2	
10	Lesson 3.3 Explore Division of Mixed Numbers	Divide mixed numbers.	2	
11	Lesson 3.4 Practice and Apply Division of Fractions and Mixed Numbers	Divide fractions and mixed numbers.	1	
12	Lesson 3.5 Practice Fraction Operations	Use LCM and GCF to add, subtract, multiply, and divide fractions.	2	Module 3 – 1 Week 4 Days
13	Lesson 4.1 Add and Subtract Multi-Digit Decimals	Add and subtract multi-digit decimals.	1	

14	Lesson 4.2 Multiply Multi-Digit Decimals	Multiply multi-digit decimals.	1	
15	Lesson 4.3 Divide Multi-Digit Whole Numbers	Divide multi-digit whole numbers using the standard algorithm.	1	
16	Lesson 4.4 Divide Multi-Digit Decimals	Divide multi-digit decimals using the standard algorithm.	1	

17	Lesson 4.5 Apply Operations with Multi-Digit Decimals	Solve real-world problems involving operations with multi-digit decimals.	1	Module 4 – 1 Week
18	Lesson 5.1 Understand the Concept and Language of Ratios	Understand and write ratios.	1	
19	Lesson 5.2 Represent Ratios and Rates with Tables and Graphs	Learn to use tables and graphs to represent ratios and rates.	2	
20	Lesson 5.3 Compare Ratios and Rates	Use a table or double number lines to compare ratios and rates.	1	
21	Lesson 5.4 Find and Apply Unit Rates	Find and use unit rates to solve problems.	2	
22	Lesson 5.5 Solve Ratio and Rate Problems Using Proportional Reasoning	Use equivalent ratios to solve real-world problems.	2	Module 5 – 1 Week 3 Days
23	Lesson 6.1 Use Ratio Reasoning with Circle Graphs	Apply ratio reasoning to make and interpret circle graphs.	1	
24	Lesson 6.2 Use Rate Reasoning to Convert Within Measurement Systems	Convert units within a measurement system.	2	
25	Lesson 6.3 Use Rate Reasoning to Convert Between Measurement Systems	Use equivalent ratios to convert measurements between measurement systems.	2	Module 6 – 1 Week
26	Lesson 7.1 Understand, Express, and Compare Percent Ratios	Write a ratio as a percent.	2	
27	Lesson 7.2 Use Strategies to Find a Percent of a Quantity	Find a percent of a quantity.	2	
28	Lesson 7.3 Solve a Variety of Percent Problems	Use percents to solve real world problems.	1	Module 7 – 1 Week

29	Lesson 8.1 Understand and Apply Exponents	Write and find the value of expressions involving exponents.	1	
30	Lesson 8.2 Write and Evaluate Numerical Expressions for Situations	Write and evaluate numerical expressions.	2	
31	Lesson 8.3 Write Algebraic Expressions to Model Situations	Write an algebraic expression to represent a situation.	1	

32	Lesson 8.4 Interpret and Evaluate Algebraic Expressions	Interpret and evaluate an algebraic expression.	2	
33	Lesson 8.5 Identify and Generate Equivalent Algebraic Expressions	Identify and generate equivalent expressions.	2	Module 8 – 1 Week 3 Days
34	Lesson 9.1 Write Equations to Represent Situations	Model and write an equation to represent a situation.	1	
35	Lesson 9.2 Use Addition and Subtraction Equations to Solve Problems	Solve equations that contain addition and subtraction.	2	
36	Lesson 9.3 Use Multiplication and Division Equations to Solve Problems	Solve equations that contain multiplication and division.	2	
37	Lesson 9.4 Use One-Step Equations to Solve a Variety of Problems	Write and use equations to represent situations and solve problems.	1	
38	Lesson 9.5 Write and Graph Inequalities	Write and graph inequalities to represent real-world situations.	2	Module 9 – 1 Week 3 Days
39	Lesson 10.1 Represent Equations in Tables and Graphs	Represent an equation in a table or graph.	2	

40	Lesson 10.2 Write Equations from Verbal Descriptions	Write an equation given a verbal description of a relationship.	1	
41	Lesson 10.3 Write Equations from Tables and Graphs	Write an equation using a table or graph.	2	Module 10 – 1 Week
42	Lesson 11.1 Graph Rational Numbers on the Coordinate Plane	Locate rational ordered pairs on the coordinate plane.	2	
43	Lesson 11.2 Graph Polygons on the Coordinate Plane	Solve problems by graphing and identifying polygons in the coordinate plane.	2	
44	Lesson 11.3 Find Distance on the Coordinate Plane	Use absolute value to find the distance between two points with the same x- or y- coordinate.	2	
45	Lesson 11.4 Find Perimeter and Area on the Coordinate Plane	Find the perimeter and area of polygons on the coordinate plane.	2	Module 11 – 1 Week 3 Days
46	Lesson 12.1 Develop and Use the Formula for Area of Parallelograms	Find the area of parallelograms.	2	
47	Lesson 12.2 Develop and Use the Formula for Area of Triangles	Find the area of triangles.	2	
48	Lesson 12.3 Develop and Use the Formula for Area of Trapezoids	Find the area of trapezoids.	2	

49	Lesson 12.4 Find Area of Composite Figures	Find the area of composite figures.	2	Module 12 – 1 Week 3 Days
50	Lesson 13.1 Explore Nets and Surface Area	Use nets to find surface area.	2	

51	Lesson 13.2 Find Volume of Rectangular Prisms	Find the volume of a rectangular prism.	1	
52	Lesson 13.3 Solve Volume Problems	Write equations to solve problems involving volume of rectangular prisms.	1	Module 13 – 4 Days
53	Lesson 14.1 Explore Statistical Data Collection	Identify a statistical question and describe data.	1	
53	Lesson 14.2 Display Data in Dot Plots	Use dot plots to display data.	2	
54	Lesson 14.3 Make Histograms and Frequency Tables	Make histograms and frequency tables to display data.	2	Module 14 – 1 Week
55	Lesson 15.1 Explore Mean as Fair Share	Understand how fair share and balance points are related to the mean.	1	
56	Lesson 15.2 Find Measures of Center	Describe a set of data using mean, median and mode.	1	
57	Lesson 15.3 Choose a Measure of Center	Choose an appropriate measure of center to describe a data set.	1	Module 15 – 3 Days
58	Lesson 16.1 Explore Patterns of Data	Describe overall patterns in a data set.	1	
59	Lesson 16.2 Display Data in Box Plots	Use box plots to display data.	2	
60	Lesson 16.3 Find Mean Absolute Deviation	Determine and use the mean absolute deviation of a set of data values.	2	
61	Lesson 16.4 Explore Measures of Variability	Summarize a set of data by using range, interquartile range, and mean absolute deviation.	2	
62	Lesson 16.5 Describe Distributions	Describe the distribution of a data set collected to answer a statistical question.	2	Module 16 – 1 Week 4 Days

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Supports of Diversity, Equity, and Inclusion

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

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 with disabilities. The program 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 the program is the inclusion of learning mindset prompts, which encourage students to develop a growth mindset and believe in their ability to succeed in math. 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, the program also includes guiding questions and supports for teachers to identify students who may require additional assistance. This allows teachers to provide targeted support and interventions to those students who need it most. The program also provides detailed information on students' prior learning, current development, and future connections to be made, which enables teachers to differentiate instruction effectively.

The program places a strong emphasis 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 math curriculum.

Additionally, the program 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. Furthermore, the program offers a range of interventions, additional practice, and math center options to support students with differing 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. Overall, Into Math is a highly effective instructional program that is well-equipped to support the diverse needs of all students. The program's comprehensive approach, which includes a focus on learning mindset, language development, and interventions for students with special needs, ensures that all students have the support they need to succeed in math. Furthermore, the program is designed to be flexible, allowing teachers to differentiate instruction to meet the unique needs of their students, and provide targeted support to students who may be struggling.