

Connecticut Mathematics Model Curricula Alignment

Resource Name: Fishtank Plus Math

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	Unit 3 Unit 7	6.NS.A.1: U3 L1 - L6 6.NS.B.2: U3 L10 - L11 6.NS.B.3: U3 L7 - L9, L11 - L13 6.NS.B.4: U3 L14 - L17 6.G.A.2: U7 L10 - L13, L17	21 days + 1-2 flex days + assessment
Understanding Positive and Negative Numbers	6.NS.C.5, 6.NS.C.6, 6.NS.C.7, 6.NS.C.8	Unit 4	6.NS.C.5: U4 L2 - L3 6.NS.C.6: U4 L1, L4 - L7, L11 - L12 6.NS.C.7: U4 L6 - L10, L13 6.NS.C.8: U4 L13	13 days + 1-2 flex days + assessment

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	Unit 5 Unit 6	6.EE.A.1: U5 L1-2 6.EE.A.2: U5 L3-6 6.EE.A.3: U5 L7-10 6.EE.A.4: U5 L7-10 6.EE.B.5: U6 L2, L8 6.EE.B.6: U5 L3, L11-12 6.EE.B.7: U6 L1, L3-7 6.EE.B.8: U6 L8-11	24 days + 2-3 flex days + assessment
Applications of Geometry	6.G.A.1, 6.G.A.3, 6.G.A.4	Unit 7	6.G.A.1: U7 L1-6, L9 6.G.A.3: U7 L7-9 6.G.A.4: U7 L14-17	17 days + 1-2 flex days + assessment
Ratios and Rates	6.RP.A.1, 6.RP.A.2, 6.RP.A.3	Unit 1 Unit 2	6.RP.A.1: U1 L1-4, L14-16 6.RP.A.2: U2 L2-3, L5, L14 6.RP.A.3: U1 L5-18	32 days + 2-4 flex days + assessment

			U2 L1-14 U6 L6, L12-14	
Algebraic Reasoning	6.EE.B.6, 6.EE.B.7, 6.EE.C.9	Unit 5 Unit 6	6.EE.B.6: U6 L1, L3-5, L7 6.EE.B.7: U6 L3-7 6.EE.C.9: U6 L12-14	10 days + 1-2 flex days + assessment
Statistics and Distributions	6.SP.A.1, 6.SP.A.2, 6.SP.A.3, 6.SP.B.4, 6.SP.B.5	Unit 8	6.SP.A.1: U8 L1 6.SP.A.2: U8 L4-9 6.SP.A.3: U8 L11 6.SP.B.4: U8 L2-3, L12-14 6.SP.B.5: U8 L1-2, L5-6, L8-10, L12-13	14 days + 1-2 flex days + assessment

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	# of days (assume 1 hour of instruction)	Number of weeks
1	Unit 1: Understanding and Representing Ratios	Topic A: Understanding & Describing Ratios Topic B: Equivalent Ratios Topic C: Representing Ratios in Tables Topic D: Solving Part:Part:Whole Ratio Problems	18 Lessons + 3 flex days = 21 total days	4 weeks

2	Unit 2: Unit Rates and Percent	Topic A: Defining Rate & Solving Rate Problems Topic B: Measurement Unit Conversions Topic C: Percent	14 Lessons + 5 flex days = 19 total days	4 weeks
3	Unit 3: Multi-digit and Fraction Computation	Topic A: Dividing with Fractions Topic B: Computing with Decimals Topic C: Applying the Greatest Common Factor and the Least Common Multiple	17 Lessons + 3 flex days = 20 total days	4 weeks
4	Unit 4: Rational Numbers	Topic A: Understanding Positive and Negative Rational Numbers Topic B: Order and Absolute Value Topic C: Rational Numbers in the Coordinate Plane	13 Lessons + 3 flex days = 16 total days	3-4 weeks
5	Unit 5: Numerical and Algebraic Expressions	Topic A: Numerical Expressions with Exponents Topic B: Introduction to Algebraic Expressions Topic C: Equivalent Expressions & Applications	12 Lessons + 4 flex days = 16 total days	3-4 weeks
6	Unit 6: Equations and Inequalities	Topic A: Reasoning About and Solving Equations Topic B: Reasoning About and Solving Inequalities Topic C: Representing and Analyzing Quantitative Relationships	14 Lessons + 3 flex days = 17 total days	3-4 weeks
7	Unit 7: Geometry	Topic A: Area of Triangles, Quadrilaterals, and Polygons Topic B: Polygons in the Coordinate Plane Topic C: Volume of Rectangular Prisms	17 Lessons + 2 flex days = 19 total days	4 weeks

		Topic D: Nets and Surface Area		
8	Unit 8: Statistics	Topic A: Understanding Statistics & Distributions Topic B: Measurements of Center & Variability Topic C: Box Plots & Circle Graphs	14 Lessons + 2 flex days = 16 total days	3-4 weeks

Supports of Diversity, Equity and Inclusion

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

We believe that all students deserve access to high-quality curriculum and that students should not need to prove they can do rigorous, grade-level math in order to gain access to it. We see these beliefs as key components of supporting anti-racist school practice, and we share our curriculum as a trusted resource for educators in this work. As a curriculum team, we are continually listening, learning, and iterating on our curriculum and resources to get this work right. We strive to help all students see themselves as confident and competent mathematicians who are able to apply their math knowledge both in and out of the classroom as global citizens.

Our problems are written to reflect a wide range of identities and real-life contexts. The contexts and quantities used within problems do not suggest certain levels of wealth or access to opportunities. At times, common contexts that are accessible to most, such as school, nature, daily activities, temperature, or sports, are used. Other problems offer opportunities to connect to specific cultures and provide windows and mirrors for students. We aim to use engaging contexts that are interesting to students and connect to the real world. Gender is also balanced to avoid negative stereotypes around gender assignments, such as boys playing sports and girls baking. Situations that imply a binary gender are also avoided, such as a problem asking for a total number of people when given the number of girls and the number of boys. Gender neutral names and pronouns are present in the curriculum as well.

To support teachers in implementing the curriculum, we have many tools available in our Math Teacher Tools section. Here, teachers find in-depth resources available for topics such as Preparing to Teach Fishtank Math, Academic Discourse, Assessments, and Procedural Skill and Fluency. Two specific resources, Supporting English Learners and Special Populations, include protocols and strategies for teachers to use in their classrooms with students who are either learning English or who have a learning disability.