Connecticut Mathematics Model Curricula Alignment Resource Name: Fishtank Plus Math

	Alignment Grade 8				
Model Unit Name	Model Unit Standards	Resource Unit(s) Number	Resources Lessons	Pacing	
This is the title of the unit in the model curricula	These are the standards addressed in the unit	This is the unit(s) that aligns with the model unit from the resource	These are the lessons from the identified units that align to the standards within the model unit	This is the expected number of days for instruction	
		F	-		
Real Numbers	8.NS.A.1, 8.NS.A.2, 8.EE.A.1, 8.EE.A.2, 8.EE.A.3, 8.EE.A.4	Unit 1 Unit 7	8.NS.A.1: U7 L2, L4-5	21 days + 2-3 flex days + assessment	
			8.NS.A.2: U7 L2-3, L13		
			8.EE.A.1: U1 L1-9, L15		
			8.EE.A.2: U7 L1, L13		
			8.EE.A.3: U1 L10-12, L15		
			8.EE.A.4: U1 L10, L12-15		
Pythagorean Theorem	8.EE.A.2, 8.G.B.6, 8.G.B.7, 8.G.B.8	Unit 7	8.EE.A.2: U7 L1, L13	8 days + 1-2 flex days + assessment	
			8.G.B.6: U7 L6-8		
			8.G.B.7: U7 L9-11		
			8.G.B.8: U7 L12		

Congruence and Similarity	8.G.A.1, 8.G.A.2, 8.G.A.3,	Unit 3	8.G.A.1:	22 days + 2-3 flex days +
	8.G.A.4, 8.G.A.5		U3 L1-8, L10	assessment
			8.G.A.2:	
			U3 L1-10, L14, L17-18	
			8.G.A.3:	
			U3 L3, L5, L9-10, L13	
			8.G.A.4:	
			U3 L11-16	
			8.G.A.5: U3 L17-22	
Linear Relationships	8.EE.B.7, 8.EE.B.6, 8.EE.C.7,	Unit 2	8.EE.B.5:	37 days + 3-4 flex days +
	8.F.A.1, 8.F.A.2, 8.F.A.3,	Unit 4	U5 L1-4	assessment
	8.F.B.4, 8.F.B.5	Unit 5		
			8.EE.B.6:	
			U5 L6-13	
			8.EE.C.7:	
			U2 L1-10	
			8.F.A.1:	
			U4 L1-6, L8	
			8.F.A.2:	
			U4 L3, L9-10	
			8.F.A.3:	
			U4, L7-8; U5 L8	
			8.F.B.4:	
			U4 L3-4, L6	
			U5 L5, L7, L10-12, L14-15	
			8.F.B.5:	
			U4 L11-12	

Systems of Linear	8.EE.C.7, 8.EE.C.8, 8.F.A.2,	Unit 6	8.EE.C.8:	11 days + 1-2 flex days +
Relationships	8.F.B.4		U6 L1-11	assessment
Volume	8.G.C.9	Unit 7	8.G.C.9:	3 days + 1 flex days +
			U7 L14-16	assessment
Patterns in Data	8.SP.A.1, 8.SP.A.2, 8.SP.A.3,	Unit 8	8.SP.A.1:	9 days + 1-2 flex days +
	8.SP.A.4,		U8 L1-3	assessment
			0.004.2	
			8.SP.A.2:	
			U8 L4	
			8.SP.A.3:	
			U8 L5-6	
			8.SP.A.4:	
			U8 L7-9	
		Scope and Sequence		
If a district uses this resou	rce to implement the state model curr	iculum for arade 8. the followina	scope and sequence should be for	llowed to ensure alianment
, and attention to the progr	•		, , ,	5
Order	Unit Number/Title and	Lesson Objectives	# of days (assume 1 hour of	Number of weeks
	Lessons	-	instruction)	
			moeraction	
1	Unit 1 Exponents and	Topic A: Review of Exponents	15 Lessons + 4 flex days =	4 weeks
1		Topic A: Review of Exponents Topic B: Properties of		4 weeks
1	Unit 1 Exponents and		15 Lessons + 4 flex days =	4 weeks
1	Unit 1 Exponents and	Topic B: Properties of	15 Lessons + 4 flex days =	4 weeks
2	Unit 1 Exponents and	Topic B: Properties of Exponents	15 Lessons + 4 flex days =	4 weeks 3-4 weeks
	Unit 1 Exponents and Scientific Notation	Topic B: Properties of Exponents Topic C: Scientific Notation	15 Lessons + 4 flex days = 19 total days	
	Unit 1 Exponents and Scientific Notation Unit 2: Solving One-Variable	Topic B: Properties of Exponents Topic C: Scientific Notation Topic A: Simplifying	15 Lessons + 4 flex days = 19 total days 12 Lessons + 4 flex days =	
	Unit 1 Exponents and Scientific Notation Unit 2: Solving One-Variable	Topic B: Properties of Exponents Topic C: Scientific Notation Topic A: Simplifying Expressions and Verifying	15 Lessons + 4 flex days = 19 total days 12 Lessons + 4 flex days =	
	Unit 1 Exponents and Scientific Notation Unit 2: Solving One-Variable	Topic B: Properties of Exponents Topic C: Scientific Notation Topic A: Simplifying Expressions and Verifying Solutions	15 Lessons + 4 flex days = 19 total days 12 Lessons + 4 flex days =	
	Unit 1 Exponents and Scientific Notation Unit 2: Solving One-Variable	Topic B: Properties of Exponents Topic C: Scientific Notation Topic A: Simplifying Expressions and Verifying Solutions Topic B: Analyzing and Solving	15 Lessons + 4 flex days = 19 total days 12 Lessons + 4 flex days =	
	Unit 1 Exponents and Scientific Notation Unit 2: Solving One-Variable	Topic B: Properties of Exponents Topic C: Scientific Notation Topic A: Simplifying Expressions and Verifying Solutions Topic B: Analyzing and Solving Equations in One Variable	15 Lessons + 4 flex days = 19 total days 12 Lessons + 4 flex days =	
	Unit 1 Exponents and Scientific Notation Unit 2: Solving One-Variable	Topic B: Properties of Exponents Topic C: Scientific Notation Topic A: Simplifying Expressions and Verifying Solutions Topic B: Analyzing and Solving Equations in One Variable Topic C: Analyzing and Solving	15 Lessons + 4 flex days = 19 total days 12 Lessons + 4 flex days =	
2	Unit 1 Exponents and Scientific Notation Unit 2: Solving One-Variable Equations	Topic B: Properties of Exponents Topic C: Scientific Notation Topic A: Simplifying Expressions and Verifying Solutions Topic B: Analyzing and Solving Equations in One Variable Topic C: Analyzing and Solving Inequalities in One Variable	15 Lessons + 4 flex days = 19 total days 12 Lessons + 4 flex days = 16 total days	3-4 weeks
2	Unit 1 Exponents and Scientific Notation Unit 2: Solving One-Variable Equations Unit 3: Transformations and	Topic B: Properties of Exponents Topic C: Scientific Notation Topic A: Simplifying Expressions and Verifying Solutions Topic B: Analyzing and Solving Equations in One Variable Topic C: Analyzing and Solving Inequalities in One Variable Topic A: Congruence and	15 Lessons + 4 flex days = 19 total days 12 Lessons + 4 flex days = 16 total days 22 Lessons + 4 flex days =	3-4 weeks
2	Unit 1 Exponents and Scientific Notation Unit 2: Solving One-Variable Equations Unit 3: Transformations and	Topic B: Properties of Exponents Topic C: Scientific Notation Topic A: Simplifying Expressions and Verifying Solutions Topic B: Analyzing and Solving Equations in One Variable Topic C: Analyzing and Solving Inequalities in One Variable Topic A: Congruence and Rigid Transformations	15 Lessons + 4 flex days = 19 total days 12 Lessons + 4 flex days = 16 total days 22 Lessons + 4 flex days =	3-4 weeks

4	Unit 4: Functions	Topic A: Defining Functions	12 Lessons + 4 flex days =	3-4 weeks
		Topic B: Representing and	16 total days	
		Interpreting Functions		
		Topic C: Comparing Functions		
		Topic D: Describing and		
		Drawing Graphs of Functions		
5	Unit 5: Linear Relationships	Topic A: Comparing	15 Lessons + 4 flex days =	4 weeks
		Proportional Relationships	19 total days	
		Topic B: Slope and Graphing		
		Linear Equations		
		Topic C: Writing Linear		
		Equations		
6	Unit 6: Systems of Linear	Topic A: Analyze & Solve	11 Lessons + 4 flex days =	3 weeks
	Equations	Systems of Equations	15 total days	
		Graphically		
		Topic B: Analyze & Solve		
		Systems of Equations		
		Algebraically		
7	Unit 7: Pythagorean Theorem	Topic A: Irrational Numbers	16 Lessons + 4 flex days =	4 weeks
	and Volume	and Square Roots	20 total days	
		Topic B: Understanding and		
		Applying the Pythagorean		
		Theorem		
		Topic C: Volume and Cube		
		Roots		
8	Unit 8: Bivariate Data	Topic A: Associations in	9 Lessons + 3 flex days =	2-3 weeks
		Bivariate Numerical Data	12 total days	
		Topic B: Associations in		
		Bivariate Categorical Data		
	Support	s of Diversity, Equity and I	nclusion	
ease provide any informat	ion relative to supporting culturally	responsive instruction, multi-lang	uage learners, and students with dis	sabilities
a haliawa that all students	deserve access to high quality surri	culum and that students should n	ot need to prove they can do rigoro	us 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.