Curriculum Map

Course Title: Math **Grade:** 5th

Unit (Name/Number): Numbers and Operations- Fractions	**Pacing:** Refer to RCC Pacing Guide (Unit 2 by end of January)
Essential Question(s): How do you use equivalent fractions as a strategy to add and subtract fractions? How do we apply prior knowledge of multiplication and division to multiply and divide fractions?	

Content/Key Concepts (Eligible Content)	**Standards**	**Key Vocabulary**	**Learning Activities/Resources**	**Evidence of Learning** (Assessments; Performance Tasks)
UNDERSTANDING CONCEPTS & OPERATIONS USING FRACTIONS AND MIXED NUMBERS **M05.A-F.1.1.1 Add and subtract fractions (including mixed numbers) with unlike denominators. (May include multiple methods and representations.)** Example: 2/3 + 5/4 = 8/12 + 15/12 = 23/12 **M05.A-F.2.1.1 Solve word problems involving division of whole numbers leading to answers in the form of fractions (including mixed numbers).** **M05.A-F.2.1.2 Multiply a fraction (including mixed numbers) by a fraction.**	**Common Core** 5.NF.1, 5.NF.2, 5.NF.3, 5.NF.4a, 5.NF.4b, 5.NF.5a, 5.NF.5b, 5.NF.6, 5.NF.7a, 5.NF.7b, 5.NF.7c **PA Core Standards** CC.2.1.5.C.1 CC.2.1.5.C.2	• numerator • denominator • equivalent fractions • common denominator • benchmark fraction • unit fraction • area • equation	Lesson 10: Add and Subtract Fractions (**M**) Lesson 11: Add and Subtract Fractions in Word Problems (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion Lesson 12: Fractions as Division (**S/A**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion Lesson 13: Understand Products of Fractions (**S/A**) Lesson 14: Multiply Fractions Using an Area Model (**M**) Lesson 16: Multiply Fractions in Word Problems (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion	**Assessment Options:** RCC Quizzes RCC Mid-Unit Assessment (after Lesson 14) RCC Interim Assessment SAS Assessment Builder **Required Assessment:** RCC Unit 2 Assessment **Extension Activity:** RCC Math in Action **Math Practice Standards** **Add and Subtract Fractions**-2, 3, 4 **Add and Subtract Fractions in Word Problems**-2, 3, 4, 5, 7 **Fractions as Division**-2, 5,7 **Understand Products of Fractions**-2, 3, 4, 5, 7 **Multiply Fractions Using an Area Model**-1, 2, 4, 5, 6, 7 **Understand Multiplication**

M05.A-F.2.1.3 Demonstrate an understanding of multiplication as scaling (resizing). Example 1: Comparing the size of a product to the size of one factor on the basis of the size of the other factor without performing the indicated multiplication. Example 2: Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number. **M05.A-F.2.1.4 Divide unit fractions by whole numbers and whole numbers by unit fractions.**		● scaling	Lesson 15: Understand Multiplication as Scaling (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion Lesson 17: Understand Division with Unit Fractions (**M**) Lesson 18: Divide Unit Fractions in Word Problems (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion	**as Scaling**-1, 2, 4, 5, 6, 7 **Multiply Fractions in Word Problems**-1, 2, 3, 4, 5, 6, 7, 8 **Understand Division with Unit Fractions**-1, 2, 3, 4, 5, 6, 7, 8 **Divide Unit Fractions in Word Problems**-1, 2, 3, 4, 5, 6, 7, 8

M = lessons that have a **major emphasis** in the Common Core Standards
S/A = lessons that have **supporting/additional** emphasis in the Common Core Standards

Math Practice Standards:

1- Make sense of problems and persevere in solving them
2- Reason abstractly and quantitatively
3- Construct viable arguments and critique the reasoning of others
4- Model with mathematics
5- Use appropriate tools strategically
6- Attend to precision
7- Look for and make use of structure
8- Look for and express regularity in repeated reasoning