Curriculum Map

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

Unit (Name/Number): Algebraic Concepts	**Pacing:** Refer to RCC Pacing Guide (Unit 3 by mid-February)
Essential Question(s): How do you write and interpret numerical expressions? How can you analyze patterns and relationships?	

Content/Key Concepts (Eligible Content)	**Standards**	**Key Vocabulary**	**Learning Activities/Resources**	**Evidence of Learning** (Assessments; Performance Tasks)
INTERPRET AND EVALUATE NUMERICAL EXPRESSIONS USING ORDER OF OPERATIONS. **M05.B-O.1.1.1 Use multiple grouping symbols (parentheses, brackets, or braces) in numerical expressions and evaluate expressions containing these symbols.** **M05.B-O.1.1.2 Write simple expressions that model calculations with numbers and interpret numerical expressions without evaluating them.** Example 1: Express the calculation "add 8 and 7, then multiply by 2" as 2 × (8 + 7). Example 2: Recognize that 3 × (18,932 + 921) is three times as large as 18,932 + 921 without having to calculate the indicated sum or product. **ANALYZE PATTERNS AND RELATIONSHIPS USING TWO RULES.** **M05.B-O.2.1.1 Generate two numerical patterns using two given rules.** Example: Given the rule "add 3" and the starting number 0 and given the rule "add 6" and the starting number 0, generate terms in the resulting sequences.	**Common Core** 5.OA.1, 5.OA.2, 5.OA.3 **PA Core Standards** CC.2.2.5.A.1, CC.2.2.5.A.4	● evaluate ● equation ● numerical expression ● grouping symbols ● parentheses ● brackets ● braces ● corresponding terms ● ordered pair ● relationship ● horizontal axis (x) ● vertical axis (y)	Lesson 19: Evaluate and Write Expressions (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher's discretion Lesson 19: Evaluate and Write Expressions (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher's discretion Lesson 20: Analyze Patterns and Relationships (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher's discretion	**Assessment Options:** RCC Quizzes RCC Interim Assessment SAS Assessment Builder **Required Assessment:** RCC Unit 3 Assessment **Extension Activity:** RCC Math in Action **Math Practice Standards** **Evaluate and Write Expressions**-1, 2, 3, 4, 5, 7 **Analyze Patterns and Relationships**-2, 3, 4, 5, 7

M05.B-O.2.1.2 Identify apparent relationships between corresponding terms of two patterns with the same starting numbers that follow different rules. Example: Given two patterns in which the first pattern follows the rule “add 8” and the second pattern follows the rule “add 2,” observe that the terms in the first pattern are 4 times the size of the terms in the second pattern.			Lesson 20: Analyze Patterns and Relationships (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher’s discretion	

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