Curriculum Map

Course Title: Math **Grade:** 4th

Unit (Name/Number): Numbers and Operations	**Pacing:** Refer to the RCC Pacing Guide
Essential Question(s): How do I generalize place value understanding and use the properties of operations to perform multi-digit arithmetic?	

Content/Key Concepts (Eligible Content)	**Standards**	**Key Vocabulary**	**Learning Activities/Resources**	**Evidence of Learning** (Assessments; Performance Tasks)
Place Value for Multi-digit Whole Numbers **M04.A-T.1.1.1 Demonstrate an understanding that in a multi-digit whole number (through 1,000,000), a digit in one place represents ten times what it represents in the place to its right.** Example: Recognize that in the number 770, the 7 in the hundreds place is ten times the 7 in the tens place. **M04.A-T.1.1.2 Read and write whole numbers in expanded, standard, and word form through 1,000,000.** **M04.A-T.1.1.3 Compare two multi-digit numbers through 1,000,000 based on meanings of the digits in each place, using >, =, and < symbols.** **M04.A-T.1.1.4 Round multi-digit whole numbers (through 1,000,000) to any place.**	**Common Core** 4.NBT.1, 4.NBT.2, 4.NBT.3 **PA Core Standards** CC.2.1.4.B.1	**Imperative to use exact vocabulary:** ● digits ● place value ● standard Form ● word Form ● expanded Form ● compare ● period ● > (greater than) ● < (less than)	**SMP 5 Use Appropriate Tools Strategically** ***use calculators at teacher's discretion** *Generalize place value understanding for multi-digit whole numbers and use the properties of operations to perform multi-digit arithmetic.* **Ready Common Core Lessons** **Lesson 1:** Understand Place Value **(M)** **Lesson 2:** Compare Whole Numbers **(M)** **Lesson 4:** Rounding Whole Numbers **(M)** Sample Assessment Questions SAS Materials/Resources	**Assessment Options:** RCC Quizzes RCC Mid-Unit Assessments RCC Interim Assessment **District Requirement:** RCC Unit Assessments **Extension Activities:** Math in Action ***Practice Standard 5: use of calculators appropriate** **Practice standards:** **Understanding Place Value:** 2,4,6,7 **Compare Whole Numbers** 2,4,6,7,8 **Add and Subtract Whole Numbers** 2,5,7,8 **Round Whole Numbers** 1,2,4,5,6,7,8
Addition and Subtraction of Whole Numbers **M04.A-T.2.1.1 Add and subtract multi-digit whole numbers (limit sums and subtrahends up to and**	**Common Core** 4.NBT.3, 4.NBT.4 **PA Core Standards**	**Imperative to use exact vocabulary:** ● breaking apart ● compensation ● counting on	**Lesson 3:** Add/Subtract whole numbers **(M)** Sample Assessment Questions SAS Materials/Resources	

including 1,000,000).	CC.2.1.4.B.1, CC.2.1.4.B.2	● inverse operations ● sum ● difference ● regroup		**Multiplying Whole Numbers** 1,2,3,4,5,7 **Divide Whole Numbers** 2,3,4,5,7
Multiplying by Whole Numbers **M04.A-T.2.1.2 Multiply a whole number of up to four digits by a one-digit whole number and multiply 2 two-digit numbers.** **M04.A-T.2.1.2 Multiply a whole number of up to four digits by a one-digit whole number and multiply 2 two-digit numbers.**	**Common Core** 4.NBT.3, 4.NBT.5 **PA Core Standards** CC.2.1.4.B.1, CC.2.1.4.B.2	**Imperative to use exact vocabulary:** ● partial products ● compensation ● equation ● array ● area model ● multiple ● factors ● products ● unknown ● symbol	**Lesson 11:** Multiplying Whole Numbers **(M)** Sample Assessment Questions SAS Materials/Resources	**Multiply and Divide Whole Numbers** 1,2,3,4,5,6,7
Dividing Multi-digit Numbers by 1-digit Divisors **M04.A-T.2.1.3 Divide up to four-digit dividends by one-digit divisors with answers written as whole-number quotients and remainders.** **M04.A-T.2.1.4 Estimate the answer to addition, subtraction, and multiplication problems using whole numbers through six digits (for multiplication, no more than 2 digits × 1 digit, excluding powers of 10).**	**Common Core** 4.NBT.6 **PA Core Standards** CC.2.1.4.B.2	**Imperative to use exact vocabulary:** ● compatible numbers ● divisor ● dividend ● partial quotient ● quotient ● remainder	**Lesson 12:** Divide Whole Numbers **(M)** Sample Assessment Questions SAS Materials/Resources	

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