Grade 4 Mathematics – Unit 2: Whole Number Multiplication and Division

Phoenixville Area School District

Stage 1 Desired Results						
PA Core Standards:	Transfer					
<u>CC.2.1.4.B.2</u> Use place- value understanding and properties of operations to perform multi-digit arithmetic <u>CC.2.2.4.A.1</u> Represent and solve problems involving four operations	 TRANSFER GOALS Students will be able to independently use their learning to Fluency: Demonstrate automatic recall of addition, subtraction, multiplication and division facts Problem-solving: Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems Mathematical Vocabulary: Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale 					
CC.2.2.4.A.2 Develop	Meaning					
and/or apply number theory concepts to find factors and multiples PSSA Assessment Anchors:	 UNDERSTANDINGS Students will understand that Operations and numerical properties increase computational fluency. Depending on the situation, problems may be solved using a variety of tools and strategies Mathematicians require perseverance and resilience when creating solutions. 	 ESSENTIAL QUESTIONS Students will keep considering Have I sufficiently supported my answer and shown my work? How are the basic operations related to one another? How do numerical properties assist in computation? What information and strategies do I use to solve this problem? What is the right tool (operation/strategy/technology) for the job? 				
<u>M04.A-T.2.1</u> Use	Knowledge and Skills Acquisition					
operations to solve problems <u>M04.B-0.1.1</u> Use numbers and symbols to model the concepts of expressions and equations	 KNOWLEDGE Students will know The factor of a number is a whole number and when a given number is divided by its factor, it does not leave a remainder Division is used to determine whether a number is a factor of another number 	 SKILLS Students will be skilled at Multiply a whole number up to four digits by a one-digit whole number and multiply 2 two-digit numbers 				

M04.B-O.2.1 Develop and apply number theory concepts to represent numbers in various ways		 exactly by the lesser number Place value is used to multiply and divide multi-digit numbers Division is the inverse of multiplication VOCABULARY Quotient Product Dividend Divisor Factor Multiple Kecognize that a multiple of each whether a given 	 Solve multi-step word problems posed with whole numbers using the four operations Find all factor pairs for a whole number in the interval 1 through 100 Recognize that a whole number is a multiple of each of its factors and determine whether a given whole number is a multiple of a given number from 1 to 100 	
Code A/M/T	Evaluative Criteria	Assessment Evidence		
A/M/T Acquisition Meaning Making Transfer	What criteria will be used in each assessment to evaluate attainment of the desired results?	PERFORMANCE TASK(S) Students will demonstrate understanding (meaning-making and transfer) through comple performance by N/A	[Work on this section after completing Stages 1-2 of all units]	
A/M/T Acquisition Meaning Making	What criteria will be used in each assessment to evaluate	OTHER EVIDENCE Unit Test A: Estimation and Number Theory See <u>modified test</u> in Assessment folder Multiple Choice Fill in the blank	Differentiation Considerations: [Work on this section after	

Transfer	attainment of the	Open ended Response	completing Stages
	desired	 Unit Test B: Multiplication and Division See Math in Focus Chapter 2 Test Prep 	1-2 of all units]
	results?	Multiple Choice	
		Fill in the blank	
		Open ended Response	