Grade 5 Mathematics – Unit 4: Decimals

Phoenixville Area School District

Stage 1 Desired Results					
PA Core Standards: <u>CC.2.1.5.B.1</u> - Apply place- value concepts to show an understanding of operations and rounding as they pertain to whole numbers and decimals. <u>CC.2.1.5.B.2</u> - Extend an understanding of operations with whole numbers to perform operations including decimals.	Transfer TRANSFER GOALS Students will be able to independently use their learning to • Number Sense: Develop a sound foundation to demonstrate the value of numbers by describing their various representations, relationships, and patterns. • 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.				
PSSA Assessment Anchors: <u>M05.A-T.1.</u> 1 - Demonstrate understanding of place-value of whole numbers and decimals and compare quantities or magnitudes of numbers. <u>M05.A-T.2.1</u> - Use whole numbers and decimals to compute accurately (straight computation or word problems).	 Mean UNDERSTANDINGS Students will understand that Estimation helps determine the reasonableness of an answer. Identifying relationships between numbers helps classify and compare them. There are many ways to represent a number. Mathematics is a language of carefully defined terms and symbols. 	 ing ESSENTIAL QUESTIONS Students will keep considering What are different ways to represent a number? How do I demonstrate the relationship among numbers, quantities, and place value for whole numbers? How can I use models, words, and expanded forms to order and compare numbers? Have I sufficiently supported my answer and shown my work? 			

Knowledge and S	Knowledge and Skills Acquisition		
Knowledge and S KNOWLEDGE Students will know • Decimals represent parts of a whole and can be expressed with digits to the right of the decimal point – an extension of the place value chart for whole numbers • Decimals have value in increments of tenths, hundredths, and thousandths • Decimals can be expressed in various forms (standard, word, expanded, place value) • Decimals can be compared using their digits' values • Decimals can be added, subtracted, multiplied, and divided • Real-world situations can involve decimals and problem-solving strategies help us make sense of those situations • Decimal sums, differences, products, and quotients can be estimated VOCABULARY • Thousandth • Equivalent • Dividend • Dividend	 SKILLS Students will be skilled at Identifying the value of digits in decimal numbers by visualizing/drawing a place value chart. Expressing decimal values in terms of decimal places using proper mathematical vocabulary orally and in written form. Converting decimal amounts between different forms in oral, multiple-choice, and written/open-ended formats. Comparing decimals based on value of places, utilizing comparative strategies such as number line, stacking, etc., in 		

Stage 2 – Evidence				
Code A/M/T	Evaluative Criteria	Assessment Evidence		
N/A	N/A	PERFORMANCE TASK(S) Students will demonstrate understanding (meaning-making and transfer) through complex performance by School Supplies Performance Task (Adding and Multiplying Decimals)	Differentiation Considerations: N/A	
		Students will add and multiply decimal amounts to find the best prices on school supplies.		
		 Goal: Your task is to figure out which school supply store is cheaper for purchasing various school supplies. Role/Audience: You are a 5th grade teacher shopping for your students. Situation/Product: You will use addition and multiplication of decimals to determine total costs of supplies. Success Criteria: Your work, solutions and explanations are accurate and clearly represent the steps you took to answer each question. 		
		Math in Focus: Chapter 4 Performance Task <u>CC.2.1.5.B.1</u>		
		MIF Student Edition Pages 325-329All problems appropriate for assessment		
		Math in Focus: Chapter 5 Performance Task CC.2.1.5.B.2		
		MIF Student Edition Pages 449-452All problems appropriate for assessment		
A/M	Uses mathematics vocabulary and notation concisely and correctly. All necessary work is shown with no missing information/skipped steps.	 Unit Test A: Decimals <u>CC.2.1.5.B.1</u> See Math in Focus Chapter 4 Test Multiple Choice Open-Ended Response Constructed Response Prompts (TBD) 	Differentiation Considerations: [Work on this section after completing Stages 1-2 of all units]	

Canvas Math in Focus Chapter 4 Test – Shared in Commons
• Search "Math in Focus: 5 th grade Chapter 4 Test 2020-2021"
Unit Test B: Multiplying and Dividing Decimals <u>CC.2.1.5.B.2</u>
 See Math in Focus Chapter 5 Test Multiple Choice Open-Ended Response Constructed Response Prompts (TBD)
Canvas Math in Focus Chapter 5 Test – Shared in Commons
• Search "Math in Focus: 5 th grade Chapter 5 Test 2020-2021"