Grade 5 Mathematics – Unit 1: Whole Numbers

Phoenixville Area School District

| Stage 1 Desired Results | | | | | |
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| PA Core Standards: | Transfer | | | | |
| <u>CC.2.1.5.B.1</u> - Apply place value to show an understanding of operations and rounding as they pertain to whole numbers and decimals. | 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. | | | | |
| <u>CC.2.1.5.B.2</u> - Extend an understanding of operations with whole numbers to perform operations including decimals. | 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. | | | | |
| | Meaning | | | | |
| PSSA Assessment Anchors: <u>M05.A.T.1.1</u> -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 | 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. | 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? | | | |
| problems). | Knowledge and Skills Acquisition | | | | |
| · · · | KNOWLEDGE Students will know | SKILLS Students will be skilled at | | | |

| | | Whole numbers can be represented in various forms (standard, word, expanded, place value) Whole numbers can be compared according to their values, quantities, and magnitudes Whole numbers can be added, subtracted, multiplied and divided Real-world situations can involve whole numbers and problem-solving strategies help us make sense of those situations Sums, differences, products, and quotients can be estimated VOCABULARY Place Value Estimate Millions Factor Product Quotient Dividend | their digits' values place value chart. Explaining why one a greater/lesser va place value vocabu Calculating across whole numbers in a and multiple-choice multiplication with 2 division with 2-digit Applying a variety – Understand, Plar modeling; organize solve real-world pro- whole numbers. Rounding whole nu- places, using the ru- open-ended formatic choice questions. | een forms in open- s. le numbers by using es and visualizing a rt. one whole number has value using precise abulary. oss operations using in open-ended form bice questions (I.e., th 3-digit factors and ligit divisors). ty of strategies (UPSL Plan, Solve, Look Back; ized step approach) to problems involving e numbers to specific e rule of rounding in mat and multiple- s. vers by rounding prior | |
|---------------|------------------------|--|--|--|--|
| Cada | Fuelwetive | Stage 2 – Evidence | | | |
| Code A/M/T | Evaluative Criteria | Assessment Evidence | | | |
| | Gillella | PERFORMANCE TASK(S) | | Differentiation | |
| N/A | N/A | Students will demonstrate understanding (meaning-making complex performance by | | | |
| | | Place Value Performance Task - Optional | | | |

| | | Luxury Homes Performance Task | |
|-----|---|--|---|
| | | MIF Chapter 1 Performance Task – Optional Student Edition workbook Pages 103-105 | |
| A/M | All necessary work is shown with no missing information/skipped steps. All representations are clear and labeled accurately. | OTHER EVIDENCE 2021-2022 Math in Focus Chapter 1 Test M05.A.T.1.1 & M05.A-T.2.1 2021-2022 Math in Focus Chapter 1 Test Cover Sheet *2021-2022 MIF Chapter 1 Test used for place value and operations standards, but moving forward, separate tests to assess standards individually Unit Test A: Whole Numbers (Place Value Concepts) *To be created See Math in Focus Chapter 1 Test 1A M05.A.T.1.1 Multiple Choice Open Ended Response Constructed Response Prompts TBD Unit Test B: Whole Numbers (Multiplication & Division) *To be created See Math in Focus Chapter 1 Test 1B M05.A-T.2.1 Multiple Choice Open Ended Response Constructed Response Prompts TBD Canvas Assessment used 2020-2021 school year – shared to Commons Search "Math in Focus: 5th Grade Chapter 1 Test 2021-2022" | Differentiation Considerations: [Work on this section after completing Stages 1-2 of all units] |