Grade 3 Mathematics – Unit 1: Place Value and Estimation Phoenixville Area School District

	Stage 1 Desired Resu	ilts		
PA Core Standards:	Transfer			
CC.2.1.3.B.1 Apply place-value understanding and properties of operations to perform multi-digit arithmetic.	 TRANSFER GOALS Students will be able to independently use their learning to Develop a sound foundation to demonstrate the value of numbers by describing their various representations, relationships, and patterns. 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: M03.B-O.3.1 Use operations, patterns, and estimation strategies to solve problems (may include word problems).	 UNDERSTANDINGS Students will understand that There are many ways to represent a number. Mathematicians use place value concepts to represent amounts. Identifying relationships between numbers helps classify and compare them. Estimation helps determine the reasonableness of an answer. Mathematical situations and structures can be represented and analyzed using symbols to advance algebraic thinking. Patterns exhibit relationships that can be extended, described, and generalized. 	 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? When is estimation more appropriate than finding an exact answer? How do we use symbols to create mathematical meaning? Where in the real-world do I find patterns? 		

Knowledge and Skills Acquisition

KNOWLEDGE

Students will know...

- Base-ten blocks can be used to count, read and write numbers
- Digits are combined to create numbers up to 10.000
- Digits are either odd or even
- Patterns can be found when counting
- Numbers can be represented in different forms
- Place value can be used to compare numbers
- Symbols are used to show comparisons
- Rounding numbers allows us to estimate a reasonable answer

VOCABULARY

- Word / Standard / Expanded Form
- Place Value
- Digit / Odd / Even
- Greater Than / Less Than
- Greatest / Least
- Rounded / Rounding
- Reasonable
- Actual / Exact
- Estimate / About

SKILLS

Students will be skilled at...

- Building a number (up to 1,000) with baseten blocks and reading and or writing the number in standard, expanded or word form.
- Reading and writing numbers up to 10,000.
- Identifying odd and even numbers verbally and with selected responses.
- Recognizing patterns in numbers verbally and in opened-ended tasks.
- Identifying the importance of place value when comparing numbers verbally, in selected responses and in open-ended tasks.
- Using appropriate symbols to show the comparison of numbers in selected response tasks.
- Rounding numbers to find a reasonable answer in selected responses and openended tasks.

Stage 2 – Evidence				
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 complex performance by Performance Assessment Unit 1 Students will read, write, round and compare numbers to complete a performance based assessment. • NO Performance Task for This Unit	Differentiation Considerations:	
A/M/T Acquisition Meaning Making Transfer	What criteria will be used in each assessment to evaluate attainment of the desired results?	OTHER EVIDENCE Math in Focus 2020 Chapter Test 1 Math in Focus 2020 Chapter 1 Performance Task Teacher Observation Teacher Made Quizzes Small Group Work	Differentiation Considerations: Small Group – reteaching Enrichment – Put on Your Thinking Cap, Math Journal	