

Grade 2 Mathematics – Unit 2: Addition and Subtraction

Phoenixville Area School District

Stage 1 Desired Results		
<p>PA Core Standards: CC.2.1.2.B.3 Use place-value understanding and properties of operations to add and subtract within 1000.</p> <p>CC.2.2.2.A.1 Represent and solve problems involving addition and subtraction within 100.</p> <p>CC.2.2.2.A.2 Use mental strategies to add and subtract within 20.</p>	Transfer	
	<p>TRANSFER GOALS <i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> • <i>Fluency:</i> Demonstrate automatic recall of addition, subtraction, multiplication and division facts. • <i>Problem-Solving:</i> Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems. • <i>Mathematical Vocabulary:</i> 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	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> • Operations and numerical properties increase computational fluency. • Depending on the situation, problems may be solved using a variety of tools and strategies. • Estimation helps determine the reasonableness of an answer. </td> <td style="width: 50%; vertical-align: top;"> <p>ESSENTIAL QUESTIONS <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> • 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? • When is estimation more appropriate than finding an exact answer? </td> </tr> </table>	<p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> • Operations and numerical properties increase computational fluency. • Depending on the situation, problems may be solved using a variety of tools and strategies. • Estimation helps determine the reasonableness of an answer.
<p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> • Operations and numerical properties increase computational fluency. • Depending on the situation, problems may be solved using a variety of tools and strategies. • Estimation helps determine the reasonableness of an answer. 	<p>ESSENTIAL QUESTIONS <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> • 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? • When is estimation more appropriate than finding an exact answer? 	
Knowledge and Skills Acquisition		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>KNOWLEDGE <i>Students will know...</i></p> <ul style="list-style-type: none"> • Addition of three-digit numbers with and without regrouping </td> <td style="width: 50%; vertical-align: top;"> <p>SKILLS <i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> • Adding 2 three-digit numbers up to 1,000 with and without regrouping. </td> </tr> </table>	<p>KNOWLEDGE <i>Students will know...</i></p> <ul style="list-style-type: none"> • Addition of three-digit numbers with and without regrouping 	<p>SKILLS <i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> • Adding 2 three-digit numbers up to 1,000 with and without regrouping.
<p>KNOWLEDGE <i>Students will know...</i></p> <ul style="list-style-type: none"> • Addition of three-digit numbers with and without regrouping 	<p>SKILLS <i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> • Adding 2 three-digit numbers up to 1,000 with and without regrouping. 	

	<ul style="list-style-type: none"> • Subtraction of three-digit numbers with and without regrouping • Modeling addition as joining sets • Modeling comparing as taking away • Modeling addition and subtraction as comparing sets <p>VOCABULARY</p> <ul style="list-style-type: none"> • Add • Subtract • Regroup • Inverse Operations • Digit 	<ul style="list-style-type: none"> • Subtracting 2 three-digit numbers up to 1,000 with and without regrouping. • Solving real-world problems involving addition and subtraction of three-digit numbers using bar models.
--	---	---

Stage 2 – Evidence

Code A/M/T	Evaluative Criteria	Assessment Evidence	
N/A	N/A	<p>PERFORMANCE TASK(S)</p> <p><i>Students will demonstrate understanding (meaning making and transfer) through complex performance by...</i></p>	<p>Differentiation Considerations:</p>
A	<p>Valid conclusions are made based on given/ implied/ found information.</p> <p>Chooses effective strategy/strategies for solving the problem.</p> <p>All necessary work is shown with no missing information/skipped steps.</p> <p>Predictions/solutions are reasonable based upon the</p>	<p>OTHER EVIDENCE</p> <p>Unit Test 2.1: Addition</p> <ul style="list-style-type: none"> • Multiple Choice • Open-Ended Response <p>Unit Test 2.2: Subtraction</p> <ul style="list-style-type: none"> • Multiple Choice • Open-Ended Response <p>Unit Test 2.3: Real-World Problems</p> <ul style="list-style-type: none"> • Multiple Choice • Open-Ended Response 	<p>Differentiation Considerations:</p> <p>[Work on this section after completing Stages 1-2 of all units]</p>

	<p>context of the problem situation.</p> <p>Related mathematics is presented in a step – by – step format (final submission only).</p> <p>-All representations are clear and labeled accurately.</p> <p>-Solution is clearly identified; appropriate units are provided (if applicable).</p>		
--	--	--	--