# Grade 3 Mathematics - Unit 2: Addition and Subtraction Phoenixville Area School District 

## Stage 1 Desired Results

| Stage 1 Desired Results |  |  |
| :---: | :---: | :---: |
| PA | Transfer |  |
| CC.2.1.3.B. 1 Apply place-value understanding and properties of operations to perform multi-digit arithmetic. <br> CC.2.2.3.A. 4 Solve | TRANSFER GOALS <br> Students will be able to independently use their learni <br> - Demonstrate automatic recall of addition, sub <br> - Persistently apply various problem-solving str understand and solve problems. <br> - Interpret mathematical vocabulary and apply written expression that communicates mathe rationale. | ing to... <br> raction, multiplication and division facts. ategies and organized approaches to accurately <br> proper terminology to engage in meaningful oral and matical thinking, problem-solving methods, and |
| problems involving the | Meaning |  |
| four operations and identify and explain patterns in arithmetic. | UNDERSTANDINGS <br> Students will understand that... <br> - Mathematicians use place value concepts to represent amounts. <br> - Operations and numerical properties increase computational fluency. <br> - Depending on the situation, problems may be solved using a variety of tools and strategies. <br> - Estimation helps determine the reasonableness of an answer. <br> - Mathematical situations and structures can be represented and analyzed using symbols to advance algebraic thinking. | ESSENTIAL QUESTIONS <br> Students will keep considering... <br> - How are the basic operations related to one another? How do numerical properties assist in computation? |
| PSSA Assessment Anchors: M03.A-T. 1 Use placevalue understanding and properties of operations to perform multi-digit arithmetic. |  | What information and strategies do I use to solve this problem? What is the right tool (operation/ strategy/ technology) for the job? <br> - When is estimation more appropriate than finding an exact answer? <br> - How do we use symbols to create |
| M03.B-O. 3 Solve problems involving the four operations and identify and explain patterns in arithmetic. |  | mathematical meaning? <br> - What is the unknown? How do I find it? <br> - What does this expression/equation mean? What are the ways to represent it? Is there a best way? |



## Stage 2 - Evidence

| Code <br> A/M/T | Evaluative <br> Criteria | Stsessment Evidence |
| :--- | :--- | :--- | :--- | :--- | :--- |



