**North East School Division**



**Unpacking Outcomes**

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| **Harvesting the Outcome** | | | **BIG IDEAS** | |
| **N 3.2 Demonstrate understanding of addition of whole numbers with answers to 1000 and their corresponding subtractions (limited to 1, 2, and 3 digit numerals) including**   * **Representing strategies for adding and subtracting, concretely, pictorially, and symbolically** * **Solving situational questions involving addition and subtraction** * **Estimating using personal strategies for adding and subtracting** | | | **How do I figure this out?**  **Can I buy this?**  **Does order matter?** | |
| **Outcome** (circle the verb and underline the nouns or noun phrases) | | | | |
| **Demonstrate** → understanding of addition and subtraction  **Representing** → strategies (concretely, pictorially and symbolically)  **Solving** → situational questions  **Estimating** → using personal strategies | | | | |
| **KNOW BEFORE UNIT** | **KNOW AFTER UNIT** | **UNDERSTAND** | | **BE ABLE TO DO** |
| - what a whole number is  - basic math facts  - place value to 1000  - | - mental math strategies  - strategies for addition and subtraction of 1, 2 and 3-digit numbers  - what an equation is  - key words for problem solving  - strategies for estimation | - that addition and subtraction are related  - there are many strategies to add and subtract  - adding and subtracting are essential life skills  - estimation can be beneficial in appropriate situations  - order matters in subtraction but not in addition  - mental math strategies make addition of larger numbers easier  - addition results in a larger quantity while subtraction results in a smaller quantity  -place value is important in understanding addition and subtraction  - that the answer is never enough...we must know why we get the answers we get | | - describe mental math strategies for basic facts  - explain personal strategies for 2-digit addition and subtraction (concretely, pictorially and symbolically) and extend this to 3-digit numbers  - create and solve real-life word problems  - model addition and subtraction with 2 or more given quantities concretely and pictorially  - explain personal strategies for estimating  - rules of adding and subtracting zeroes  - provide examples to show why place value is important when adding and subtracting |
| Vocabulary:  - standard form  - thousand  - strategy  - estimation  - sum  - difference | - equation  - number line  - hundred chart  - digit |
| **Essential Questions** | | | | |
| **When is estimation appropriate?**  **How are addition and subtraction related?**  **Why do we need to know how to add and subtract?**  **How do you know whether to add or subtract?**  **What personal strategies do you use and why?**  **When does order matter?**  **When would you use addition and subtraction?**  **Why do we have to know more than the answer? When is the answer not enough?** | | | | |