**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?** |