



# Hattiesburg Public School District

## Grade 4 Mathematics Units

### 2015 – 2016



#### Unit 2: Addition and Subtraction to 1,000,000

**Time Frame:** 3 weeks (Aug 31-Sept 18, 2015)

#### Content Standards

#### Standards for Mathematical Practice

#### Major Standards

**4.NBT.B.4** Fluently add and subtract multi-digit whole numbers using the standard algorithm.

**4.OA.A.3** Solve multistep word problems posed with whole numbers and having whole-number answers using ~~the four operations~~ **addition and subtraction**, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

**4.OA.C.5** Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. *For example, given the rule "Add 3" and the starting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate between odd and even numbers. Explain informally why the numbers will continue to alternate in this way.*  
**(addition and subtraction)**

**4.MD.A.3** Apply the ~~area and~~ **perimeter** formulas for rectangles in real world and mathematical problems.

**4.MD.A.2** Use ~~the four operations~~ **addition and subtraction** to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.

- (1) Make sense of problems and persevere in solving them.
- (2) Reason abstractly and quantitatively.
- (3) Construct viable arguments and critique the reasoning of others.
- (4) Model with mathematics.
- (5) Use appropriate tools strategically.
- (6) Attend to precision.
- (7) Look for and make use of structure.
- (8) Look for and express regularity in repeated reasoning.



# Hattiesburg Public School District

## Grade 4 Mathematics Units

### 2015 – 2016



<b>Supporting Standards</b>				
<b>Additional Standards</b>				
<p><b>4.NBT.B.4</b> Fluently add and subtract multi-digit whole numbers using the standard algorithm.</p> <p><b>4.NBT.B.5</b> Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p>				
<b>Pre-requisite Standards</b>				
<p><b>3.NBT.2-3</b> Use place value understanding and properties of operations to perform multi-digit arithmetic.</p>				
<b>Lesson 1</b>	<b>Lesson 2</b>	<b>Lesson 3</b>	<b>Lesson 4</b>	<b>Lesson 5</b>
Addition and Subtraction Patterns 4.NBT.4/4.OA.5 <a href="#">Square Numbers</a>	Estimate sums and differences 4.NBT.4 <a href="#">Addition and Subtracting Multi-Digit Whole Numbers</a>	Add Whole Numbers 4.OA.3/4.MD.3 <a href="#">Carnival Tickets</a>	Subtract Across Zeros 4.NBT.4 <a href="#">Addition and Subtraction Number Stories</a>	Problem Solving: Draw a Diagram 4.NBT.4/4.OA.3 <a href="#">MD Karl's Garden</a>
<b>Performance Task</b>				
<a href="#">Assessment Tasks</a>				