



Hattiesburg Public School District

Grade 4 Mathematics Units

2015 – 2016



Unit 4: Multiplication	Time Frame: 4 Weeks October 9- November 6
Content Standards	Standards for Mathematical Practice
Major Standards	<ul style="list-style-type: none"> (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.
4.OA.4. Find all factor pairs for a whole number in the range 1–100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1–100 is prime or composite.	
4.NBT.4. Fluently add and subtract multi-digit whole numbers using the standard algorithm.	
4.NBT.5. 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.	
4.MD.2. Use the four operations 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.	
4.MD.3. Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	
Supporting Standards	
Additional Standards	
4.NBT.1. Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.	
Pre-requisite Standards	
3.MD.8- Recognize perimeter as an attribute of plane figures and distinguish	



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between linear and area measures.				
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Gain familiarity with factors and multiples 4.OA.4 Finding Multiples Prime or Composite? Common Multiples Least Common Multiples	Use place value understanding and properties of operations to perform multi-digit arithmetic 4.NBT.4 Add/Sub Multi-Digit Whole Numbers Add/Sub Number Stories	Multiply four digits by one digit whole numbers NBT.5 Multiplication Race (1x3) X by 10's, 100's, 1000's	Multiply two two-digit numbers NBT.5 Multiplication Race (2x2) Area Models/Partial Products	Volume MD.2 Volume Task Cards
Lesson 6	Performance Task			
Area MD.3 How Many Tables?	Find the Factor Multiplication Number Story			