



Hattiesburg Public School District

Grade 4 Mathematics Units

2015 – 2016



Unit 6: Properties of Operations /Number Patterns	Time Frame: 2 Weeks (January 5-15)
Content Standards	Standards for Mathematical Practice
Major Standards <p>4.OA.3. Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, 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.</p> <p>4.MD.1. Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table.</p> <p>4.OA.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.</p>	<ol 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.
Supporting Standards	
Additional Standards	
<p>4.NBT.4. Fluently add and subtract multi-digit whole numbers using the standard algorithm.</p> <p>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.</p>	



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Pre-requisite Standards				
<p>3.MD.2 Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). (Excludes compound units such as cm^3 and finding the geometric volume of a container.) Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.</p>				
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Division Word Problems 4.OA.3 Interpret the Remainder	Multi-Step Word Prob. 4.OA.3 Multi-Step Word Prob.	Division Read Aloud 4.OA.3 A Remainder of One	Mass 4.MD.1 Make a Kilogram Estimating Weight	Capacity 4.MD.1 Resource/Strategy
Lesson 6	Lesson 7	Performance Task		
Length MD.1 Concentration Metric Connections	Time MD.1 Time Learn Zillion Videos	Capacity Creature		