Hattiesburg Public School District
Grade 6 Mathematics Units
2015 – 2016

Unit 3: Algebraic Expressions	Time Frame: 4 Weeks (Oct 12 - Nov 6, 2015)
Content Standards	**Standards for Mathematical Practice**
Major Standards	(1) Make sense of problems and persevere in solving them.
6.EE.1 Write and evaluate numerical expressions involving whole-number exponents.	(2) Reason abstractly and quantitatively.
	(3) Construct viable arguments and critique the reasoning of others.
6.EE.2 Write, read, and evaluate expressions in which letters stand for numbers.	(4) Model with mathematics.
a. Write expressions that record operations with numbers and with letters standing for numbers.	(5) Use appropriate tools strategically.
b. Identify parts of an expression using mathematical terms; view one or more parts of an expression as a single entity.	(6) Attend to precision.
c. Evaluate expressions at specific valuables and their variables. Include expressions that arise from formulas used in real -world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parenthesis to specify a particular order (Order of Operations).	(7) Look for and make use of structure.
	(8) Look for and express regularity in repeated reasoning.
6.EE.3 Apply the properties of operations to generate equivalent expressions.	
6.EE.4 Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them).	
6.EE.6 Use variables to represent numbers and write expressions when solving real-world or mathematical problem; understand that a variable can represent an	

unknown number, or, depending on the purpose at hand, any number in a specified set.

Supporting Standards

Additional Standards
6.NS.4 Find the greatest common factor of two whole numbers less than or equal to 100 ~~and the least common multiple of two whole numbers less than or equal to 12.~~

Pre-requisite Standards
5.OA.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols. **5.0A.2** Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. **5.NBT.7**

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic: Writing/Evaluating Expressions **Standard Ref:** 6.EE.1a, 6.EE.6	**Lesson Topic:** Identify the parts of an expression: **Standard Ref:** 6.EE.1b	**Lesson Topic:** GCF/Distributive Property **Standard Ref:** 6.NS.4	**Lesson Topic:** Identify the properties of operations **Standard Ref:** 6.EE.3	**Lesson Topic:** Identify when expressions are equivalent **Standard Ref:** 6.EE.4

Resource: Engage NY: Module 4, Topic C, Lessons 7 & 8	**Resource: Engage NY: Module 4, Topic D, Lesson 10**	Resource: Engage NY: Module 2, Topic D, Lesson 18	Resource: Engage NY: Module 4, Topic C , Lesson 8	**Resource: Engage NY: Module 4, Topic D, Lesson 12**
Lesson 6	**Lesson 7**	**Performance Task**	**FAL**	
Lesson Topic: Evaluate Exponents **Standard Ref: 6**.EE.1c Resource: Engage NY: Module 4, Topic B, Lesson 5	**Lesson Topic:** Evaluate Expressions (Order of Operations) **Standard Ref:** 6.EE.1c Resource: Engage NY: Module 4, Topic B, Lesson 6	https://grade6commoncoremath.wikispaces.hcpss.org/Unit+3+Expressions+and+Equations	http://map.mathshell.org/download.php?fileid=1610	