Hattiesburg Public School District
Grade 8 Mathematics Units
2015 – 2016

Unit 2: Linear Equations	Time Frame: 24 Days (Oct 13 - Nov 13, 2015)
Content Standards	**Standards for Mathematical Practice**
Major Standards	(1) Make sense of problems and persevere in solving them.
8.EE.7a Solve linear equations in one variable. a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers). **8.EE.7b** Solve linear equations in one variable. b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.	(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	
	8.EE.7a - MP 2, 5, 6, 7
Additional Standards	**8.EE.7b – MP 2, 5, 6, 7**
Pre-requisite Standards	
8.EE.7a ● Apply the distributive property for real numbers. ● Combine like terms. ● Evaluate algebraic expressions when given a value for the variable. ● Solve and check equations of one variable.	

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8.EE.7b
- Apply the distributive property for real numbers.
- Combine like terms.
- Evaluate algebraic expressions when given a value for the variable.
- Solve and check equations of one variable.

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic Combining Like Terms Standard Ref 8.EE.7 Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit	Lesson Topic Applying the Distributive Property Standard Ref 8.EE.7 Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit	Lesson Topic Simplifying Algebraic Expressions Standard Ref 8.EE.7 Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit	Lesson Topic Solving Linear Equations & Inequalities Standard Ref 8.EE.7 Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit	Lesson Topic Solving and Graphing Linear Equations & Inequalities Standard Ref 8.EE.7 Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit

Lesson 6	Lesson 7	Lesson 8		
Lesson Topic Formative Assessment Lesson (FAL) Standard Ref 8.EE/7.EE	Lesson Topic Solving Equations with Variables on Both Sides Standard Ref 8.EE.7	Lesson Topic Solving Equations with Special Cases Standard Ref 8.EE.7		

Resource/Strategy	Resource/Strategy			
Solving Linear Equations (Grade 7) www.map.mathshell.org	https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit	Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit		