Hattiesburg Public School District
Grade 8 Mathematics Units
2015 – 2016

Unit 5: Systems of Equations	Time Frame: *15 Days/February 8 - 29, 2015*
Content Standards	**Standards for Mathematical Practice**
Major Standards	(1) Make sense of problems and persevere in solving them.
8.EE.8a Analyze and solve pairs of simultaneous linear equations. a. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously. **8.EE.8b** Analyze and solve pairs of simultaneous linear equations. b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. *For example, 3x + 2y = 5 and 3x + 2y = 6 have no solution because 3x + 2y cannot simultaneously be 5 and 6.* **8.EE.8c** Analyze and solve pairs of simultaneous linear equations. c. Solve real-world and mathematical problems leading to two linear equations in two variables. *For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.*	(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	
Pre-requisite Standards	
8.EE.8a	

- Graph on a coordinate plane.
- Identify coordinates on a coordinate plane.

8.EE.8b
- Graph on a coordinate plane.
- Identify coordinates on a coordinate plane.

8.EE.8c
- Graph on a coordinate plane.
- Identify coordinates on a coordinate plane.

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic Graph and Analyze System of Equations Standard Ref 8.EE.8a Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit	Lesson Topic Analyze and Solve Systems of Equations using Substitution Standard Ref 8.EE.8b Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit	Lesson Topic Analyze and Solving Systems of Equations using Eliminations Standard Ref 8.EE.8b Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit	Lesson Topic Formative Assessment Lesson (FAL) Standard Ref 8.EE Resource/Strategy Classifying Solutions to Systems of Equations www.map.mathshell.com	Lesson Topic Analyze and Solve Systems of Equations in Real World Situations Standard Ref 8.EE.8c Resource/Strategy https://docs.google.com/document/d/1uM3pZuKUJugPiGKTLbQXvJAPt_qod2PYicWIKkUapM8/edit