Hattiesburg Public School District
Algebra I Mathematics Units
2015 – 2016

Unit 3: Introduction to Functions	Time Frame: 1 Weeks (Sept 8-15)
Content Standards	**Standards for Mathematical Practice**
Major Standards	(1) Make sense of problems and persevere in solving them.
F-IF.A.1 Understand that a function from one set (called the domain) to another set (called the range) assigns to each element of the domain exactly one element of the range. If f is a function and x is an element of its domain, then f(x) denotes the output of f corresponding to the input x. The graph of f is the graph of the equation y = f(x)	(2) Reason abstractly and quantitatively. (3) Construct viable arguments and critique the reasoning of others. (4) Model with mathematics.
Supporting Standards	(5) Use appropriate tools strategically.
F-BF.A.1 Write a function that describes a relationship between two quantities.* a. Determine an explicit expression, a recursive process, or steps for calculation from a context. **F-IF.A.2** Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context. **F-IF.B.5** Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. *For example, if the function h(n) gives the number of person-hours it takes to assemble n engines in a factory, then the positive integers would be an appropriate domain for the function.* **F-IF.B.6** Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.*	(6) Attend to precision. (7) Look for and make use of structure. (8) Look for and express regularity in repeated reasoning. **** Note: MPs taken from the Flip Book By McGraw Hill.**
Additional Standards:	
Pre-requisite Standards	

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Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson 6	Lesson 7	Lesson 8	Lesson 9	Lesson 10