



Hattiesburg Public School District

Grade 6 Mathematics Units

2015 – 2016



Unit 8: Statistics and Probability	Time Frame: 4th 9 Weeks (March 16 until)
Content Standards	Standards for Mathematical Practice
Major Standards	<ul 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>6.SP.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.</p> <p>6.SP.2 Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.</p> <p>6.SP.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.</p> <p>6.SP.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</p> <p>6.SP.5a Summarize numerical data sets in relation to their context such as by: a) Reporting the number of observations.</p>	



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6.SP.5b Summarize numerical data sets in relation to their context such as by: b) Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

6.SP.5c Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.

6.SP.5d Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.

Pre-requisite Standards

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
<p>Lesson Topic: Introduce statistical and nonstatistical questions</p> <p>Standard Ref: 6.SP.1</p> <p>Resource: Engage NY: Module 6, Topic A, Lesson 1 & Module 6, Topic D, Lesson 17</p>	<p>Lesson Topic: Describing a data set using distribution</p> <p>Standard Ref: 6.SP.2</p> <p>Resource: Engage NY: Module 6, Topic A, Lesson 2 //learnzillion.com/lessons/132</p>	<p>Lesson Topic: Measuring Center</p> <p>Standard Ref: 6.SP.3</p> <p>Resource: Engage NY: Module 6, Topic B, Lessons 6-8 //learnzillion.com/lessons/500</p>	<p>Lesson Topic: Measuring Variations</p> <p>Standard Ref: 6.SP.3</p> <p>Resource: Engage NY: Module 6, Topic B, Lessons 6-8 //learnzillion.com/lessons/500</p>	<p>Lesson Topic: Introducing dot plots, box plots, and histograms</p> <p>Standard Ref: 6.SP.4</p> <p>Resource: Module 6, Topic C, Lesson 16 https://learnzillion.com/lessons/738</p>



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Lesson 6	Lesson 7	Lesson 8	Lesson 9	Performance Task
<p>Lesson Topic: Display data on dot plots Standard Ref: 6.SP.4 Resource: Module 6, topic A, Lesson 3 https://learnzillion.com/lessonsets/738</p>	<p>Lesson Topic: Display data on histograms Standard Ref: 6.SP.4 Resource: Engage NY: Module 6, Topic A, Lesson 4 https://learnzillion.com/lessonsets/738</p>	<p>Lesson Topic: Display data on box plots (box & whiskers) Standard Ref: 6.SP.4 Resource: Engge NY: Module 6, Topic C, Lesson 14 https://learnzillion.com/lessonsets/738</p>	<p>Lesson Topic: Summarize data sets in a variety of ways. Standard Ref: 6.SP.5a-b Resource: Engage NY: Module 6, Topic D, Lesson 18 //learnzillion.com/lesson_plans/268#fndtn-lesson</p>	<p>Bullying Doesn't Add Up https://grade6commoncoremath.wikispaces.hcpss.org/Unit+5+Statistics+and+Probability</p>