**Q03 U06 Week 04 2015**

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| **Standards/Elements** | **Develop understanding of statistical variability.** **MCC.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.**MCC6.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. **MCC6.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. **MCC6.SP.4**. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.**MCC6.SP.5.** Summarize numerical data sets in relation to their context, such as by:**MCC6.SP.5.a.** Reporting the number of observations.**MCC6.SP.5.b.** Describing the nature of the attribute under investigation, including how it was measured and its units of measurement**MCC6.SP.5.c.** 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**MCC6.SP.5.d.** 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. |
| **Essential Questions** | * What is a statistical question?
* How are the mean, median, and mode helpful in describing data?
* Why is it important to carefully evaluate graphs?
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| **Enduring Understandings** | * Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.
* 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.
* Understand that numerical data can be displayed in plots on a number line, including dot plots, histograms, and box plots.
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| **Essential Vocabulary** | * Frequency
* Grouped Frequency Table
* Mean
* Median
* Mode
* Measures of Center
* Measures of Variation
* Mean Absolute Deviation
* Maximum Value
* Inter-Quartile Range (IQR)
* Histogram
* Box and Whisker Plot
* Minimum Value
* Outlier
* Range
* Stem and Leaf Plot
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| **Learning Format- Check All That Apply****Whole Group X****Cooperative Group XFlexible Group XCollaborative Pair XCenters/Stations x****Other (Please list):**  | **Technology Usage****Teacher: PPT, Interwrite Pad, ELMO****Student: PPT, Interwrite Pad, ELMO** | **Assessment- Check All That Apply****Student ConferencingPerformance Task Class Presentation xTest - xQuiz Homework XTicket Out The Door** **CPS Response****Other (Please list):**  |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **Warm-Up/Hook** | PARCC Assessment #3 | PARCC Assessment #4 | PARCC Assessment #5 | PARCC Assessment #6/7 | PARCC Assessment #13 |
| * **Resource Materials**
 | * **Warm Up PPT (in 6th grade Math folder on T-Drive)**
* **Frequency Table PPT**
 | * **Warm Up PPT (in 6th grade Math folder on T-Drive)**
* **Histogram PPT**
 | * **Warm Up PPT (in 6th grade Math folder on T-Drive)**
* **MAD PPT**
 | * **Warm Up PPT (in 6th grade Math folder on T-Drive)**
* **Measures of Variation PPT**
 | * **Warm Up PPT (in 6th grade Math folder on T-Drive)**
* **LearnZillion Video**
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| **Instructional Activities/Strategies** |  **E.Q.** How can a frequency table be used to organize data?**Opening:**  Study Jams: Histogram**Work Period:** Frequency Tables PPT-Cornell NotesChoose one of the given data sets to create a frequency table with intervals.**Closing:** Q/C/C **Homework:** Create a frequency table using given data | **E.Q.** How can a histogram be used to represent data?**Opening:**  Review Homework and lead into how to create a histogram to display the data.**Work Period:**Cornell Notes over Histograms (PPT T-drive). Use the frequency table from yesterday to create a histogram.Identify shape of distribution in histograms. **Closing:** Q/C/C**Homework:** Create a frequency table and histogram using given data set | **E.Q.** How do I find the mean absolute deviation of a set of data?**Opening:**  Review Homework **Work Period:**MAD PPT and Practice Sheet**Closing:** Q/C/C**Homework:** Find the MAD of given data | **E.Q.** How do the measures of variation differ from the measures of center?**Opening:** LearnZillion: Measures of Center vs Measures of Variance**Work Period:** Measures of Variation PPT Notes and Partner Activity**Closing:** Q/C/C**Homework:** Find the measures of variation for a given data set | **E.Q.** How do I create a box and whisker plot?**Opening:**  Review Homework**Work Period:** Box Plot-LearnZillionCreating Box Plots Partner Activity**Closing:** Q/C/C**Homework:** None |
|  **Differentiation** | * Preferential seating
* Peer Assistance
* Small Group Instruction
 | * Preferential seating
* Peer Assistance
* Small Group Instruction
 | * Preferential seating
* Choices
* Peer assistance
* One on one instruction
 | * Preferential seating
* Peer assistance
* One on one instruction
* Choices
 | * Preferential seating
* Peer assistance
* One on one instruction

Choices |