**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? | | | | | |
| **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. | | | | | |
| **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 | | | | | |
| **Learning Format- Check All That Apply**  **Whole Group X**  **Cooperative Group X  Flexible Group X  Collaborative Pair X  Centers/Stations x**  **Other (Please list):** | | | | **Technology Usage**  **Teacher: PPT, Interwrite Pad, ELMO**  **Student: PPT, Interwrite Pad, ELMO** | | **Assessment- Check All That Apply**  **Student Conferencing  Performance Task     Class Presentation x  Test - x  Quiz   Homework X  Ticket 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** |
| **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 Notes  Choose 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-LearnZillion  Creating 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 |