Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

Collaboration / Math 6* / Grade 6 (Math Regional Curriculum)

Wednesday, October 31, 2012, 12:15PM

Standard/Module: Proficiency with Statistical Reasoning 6.SP.4 (Week 32, 8 Weeks)

Stage 1: Desired Results

Standards Focus

- Additional (10%) 6.NS.6

6th Grade CCS Map.pdf

Standards

NYS: CCLS:Mathematics, NYS: 6th Grade , Statistics & Probability

6.SP Summarize and describe distributions.

- 4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.

Enduring Understandings	Essential Questions
1. Understand that data can be organized in graphs in order to facilitate understanding. 2. Understand that decisions have to be made in order to create a usable data display. 3. Understand when to represent data on a particular graph.	1. How does graphing make data easier to understand? 2. When is a histogram useful in understanding data? 3. When is a dot plot useful in understanding data? 4. When is a box plot useful in understanding data?

Critical Content

1. Graphing:

   a. line plots

   b. dot plots

   c. histograms

   d. box plot

      i. inter quartile range

      ii. median

iii. first quartile and third quartile

iv. range

Skills	Vocabulary
1. Display numerical data in plots on a number line 2. Display numerical data using histograms 3. Display numerical data using box plots 4. Create frequency table to organize data	Tier 2: mean median range interval scale tally Tier 3: inter quartile range quartile line plot dot plot histogram box plot frequency table

Stage 2: Assessment Evidence

Assessments

Formative: Performance: Skill Demonstration

Give students a survey in class asking them to answer questions they would be interested in. Give the data of one question to each student and have them organize the data, create a histogram, a stem and leaf, and a box and whisker plot. Then have students describe their findings speaking to the center, spread, and overall shape.

Stage 3: Learning Plan

Learning Activities	Resources

Give students opportunities to create the different graphs using data. Try and use data that is relevant to the students. Practice finding different statistical measures using graphs made.	http://engageny.org/common-core/ http://illustrativemathematics.org/ www.livebinders.com/play/play/52180 http://illuminations.nctm.org/ http://www.mathsisfun.com/geometry/polyhedron.html http://www.korthalsaltes.com/

Differentiation Opportunities

Differentiate by interest and ability level.

Use the TI-nspire calculator to help create the different graphs.

Use a paper strip with numbers equally spaced to help create a box and whisker plot simply by folding the paper. The first fold will represent the median, the second fold will create the 1st and 3rd quartiles.

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