Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

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

Wednesday, October 31, 2012, 12:13PM

Standard/Module: Proficiency with Statistical Reasoning 6.SP.2 (Week 32, 8 Weeks)

Stage 1: Desired Results

Standards Focus

- Additional (10%)

6th Grade CCS Map.pdf

Standards

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

6.SP Develop understanding of statistical variability.

- 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.

Enduring Understandings	Essential Questions
1. Statistics summarizes data so that information or decisions can be gathered from the data. 2. Data can be represented visually using dot plots, histograms, and box plots.	1. How can certain pieces of data affect the spread or overall shape of the distribution? 2. What are different ways you can view data distribution?

Critical Content

1. Data distribution:

   a. identify range

   b. identify center

   c. identify shape

   d. identify overall shape

2. Identify the least and greatest values of the data.

3. Read and interpret graphic organizers including a set of data (dot plots, histograms, and box plots)

Skills	Vocabulary
1. Understand that a set of data collected to answer a statistical question has a distribution. 2. Understand that a distribution can be described by its center, spread, and overall shape. 3. Identify the least and greatest values. 4. Identify the range of a set of data. 5. Identify if the data is symmetrical or not.	Tier 2: center spread shape least greatest gaps range cluster data survey Tier 3: symmetrical outlier skewed dot point dot plot histogram box plot

Stage 2: Assessment Evidence

Assessments

Formative: Performance: Skill Demonstration

Give students 3 sets of data and have students describe the data by its center, spread, and overall shape.

Give students 3 graphs and have students describe the data by its center, spread, and overall shape

Stage 3: Learning Plan

Learning Activities	Resources
Given data and graphs identify range, center, shape, and the overall shape. Find graphs in newspapers and describe the graphs by its center, spread, and overall shape.	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

Scaffold data so tasks are tiered.

Differentiate activities by interest of surveys/data.

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