Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

Collaboration / Math 8* / Grade 8 (Math Regional Curriculum)

Wednesday, October 31, 2012, 2:06PM

Standard/Module: Proficiency with Statistics & Probability: 8.SP.1 (Week 25, 6 Weeks)

Stage 1: Desired Results

Standards Focus

- Supporting (20%) 8.SP.4
  8.SP.2
  8.SP.3

Grade 8 Map

Standards

NYS: CCLS:Mathematics, NYS: 8th Grade , Statistics & Probability
8.SP Investigate patterns of association in bivariate data.

- 1. Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.

Enduring Understandings	Essential Questions
Construct and interpret scatter plots for bivariate data.	1. How are patterns used when comparing two quantities? 2. Where in real-life would you graph bivariate data? 3. What are the inferences that can be drawn from sets of data points having a positive association and negative associations?

Critical Content

1. Bivariate data using a scatter plot

- Collect
- Record
- Construct

2. Scatter plot of bivariate data

- Linear, nonlinear (association)
- Positive, negative, no correlation (association)
- Outliers

Skills	Vocabulary

1. Collect, record, and construct a set of bivariate data using a scatter plot. 2. Interpret patterns on scatter plot such as clustering, outliers, and positive, negative, or no correlation (association). 3. Investigate whether the relation between bivariate data is linear or nonlinear by inspection of a scatter plot.	Tier 2: construct, data, interpret, investigate, linear, nonlinear, pattern, quantity Tier 3: association, bivariate data, clustering, correlation, negative association, no association, outlier, positive association, scatter plot

Stage 2: Assessment Evidence

Assessments

Bivariate data
Formative: Performance: Authentic Task

Use the learning activities as the assessment

Stage 3: Learning Plan

Learning Activities	Resources
Collect, record, and construct a set of bivariate data using a scatter plot. Interpret patterns on scatter plot such as clustering, outliers, and positive, negative, or no correlation (association). Investigate whether the relation between bivariate data is linear or nonlinear by inspection of a scatter plot	www.illustrativemathematics.org www.illuminations.nctm.org

Differentiation Opportunities

<< Previous Year

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