Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

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

Wednesday, October 31, 2012, 2:07PM

Standard/Module: Proficiency with Statistics & Probability: 8.SP.2 (Week 25, 6 Weeks)

Stage 1: Desired Results

Standards Focus

- Supporting (20%) 8.SP.1
  8.SP.4
  8.SP.3

Grade 8 Map

Standards

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

- 2. Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.

Enduring Understandings	Essential Questions
Line of best fit	1. What is a line of best fit? 2. Does the data fall along a line?

Critical Content

Line of best fit for scatter plots

- Does not go through all of the points

Skills	Vocabulary
1. Graph linear relationships. 2. Know that straight lines are widely used to model the relationship between two quantitative variables. 3. Draw a straight line (line of best fit) on a scatter plot that closely fits the data points. 4. Interpret and describe how well the line of best fit (trend line) represents the data by looking at the closeness of the data points.	Tier 2: closeness, data, model, variable Tier 3: line of best fit, linear association, quantitative, scatter plot

Stage 2: Assessment Evidence

Assessments

Line of Best Fit
Formative: Performance: Skill Demonstration

Given a scatter plot, students construct a line of best fit and determine the linear equation for the line they drew.

Stage 3: Learning Plan

Learning Activities	Resources
Draw a straight line (line of best fit) on a scatter plot that closely fits the data points. Interpret and describe how well the line of best fit (trend line) represents the data by looking at the closeness of the data points.	www.illustrativemathematics.org www.illuminations.nctm.org

Differentiation Opportunities

Use the interactive on NCTM Illuminations website:
http://illuminations.nctm.org/ActivityDetail.aspx?ID=146

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