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.3 (Week 25, 6 Weeks)

Stage 1: Desired Results

Standards Focus

- Supporting (20%) 8.F.5
  8.F.4
  8.SP.1
  8.SP.2
  8.SP.4

Grade 8 Map

Standards

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

- 3. Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.

Enduring Understandings	Essential Questions
Interpret the slope and y-intercept of the line of best fit in the context of real-world situations represented by bivariate data.	1. Why do we estimate the line of best fit for a scatter plot? 2. What does the slope and y-intercept tell you about the data?

Critical Content

1. Slope as rate of change of bivariate data

2. Y-intercept of bivariate data

Skills	Vocabulary
1. Use the equation of a linear model to solve problems. 2. Interpret the meaning of the slope as a rate of change in context given bivariate data. 3. Interpret the meaning of the y-intercept in context given bivariate data.	Tier 2: interpret Tier 3: bivariate data, line of best fit, rate of change, slope, y-intercept

Stage 2: Assessment Evidence

Assessments

Interpreting a line of best fit
Formative: Test: Written

Given a scatter plot, students construct a line of best fit and determine the linear equation for the line they drew. Justify the slope and y-intercept with regard to the data.

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. Write a linear equation for the line. Interpret the slop and y-intercept with regard to the data.	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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