MRS. GAWLIK/MRS. CACHIA November 24-25, 2014

**Monday, November 24/Tuesday November 25, 2014**

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| * **TARGET STATEMENT**   I CAN use knowledge to answer questions about linear relationships, inverse variation, correlation coefficients, and standard deviation to complete Check Up 2. |

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| **Content Standard:**  **Understand the connections between proportional relationships, lines, and linear equations.**   * 8.SP.4 Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. | **ELP Standard:**  English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics.   * Explicit instruction of bivariate data vocabulary using tactile and virtual tools (ex: software tools, example of scatter plots). * Real world examples to reinforce bivariate data vocabulary (positive, negative, and no relationship graphs). |
| **Content Objective:**  I can demonstrate comprehension of the strength of association between categorical and numerical variables by using two way tables. | **Language Objective:**  I can write to draw conclusions of the strength of association between categorical and numerical data using two way tables. |
| * TARGET STATEMENT:   **I CAN** use comprehension to measure variation and strength of associaton between categorical and numerical variables. | |
| **Key Vocabulary:**  Independent and Dependent variable, linear relationship, nonlinear relationship, x-axis, y-axis, variables, function, mathematical model, residual, slope, additive inverse, multiplicative inverse, inverse variation, correlation coefficient, outlier, residual, scatter plot, standard deviation, variance, categorical variables | **Goals**   * Distinguish between categorical and numerical variables * Use two way tables and analysis of cell frequencies and relative frequencies to decide whether two variables are related |
| **Visuals, Materials, & Text**  **TEXT:** Thinking with Mathematical Models  **VISUALS:** Show Launch  **MATERIALS:** Text, Problem 5.1; begin 5.2 pages 114-115, Labsheet 5.2A/B | **Accommodations**  **Partners, small groups, master copy of lab sheets** |
| **Wrap up/Ticket Out**   * Today I learned that categorical variables are… * Today I learned that numerical variables are... | |