MRS. GAWLIK/MRS. CACHIA October 6-10, 2014

**Monday, October 6, 2014**

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| **Content Standard:**  **Understand the connections between proportional relationships, lines, and linear equations.**   * 8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. *For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.* | **ELP Standard:**  English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics. |
| **Content Objective:**  I can demonstrate evaluation of slope by solving linear equations with rational number coefficients. | **Language Objective:**  I can write to answer questions about slope using verbal, numerical, or graphical information. |
| * TARGET STATEMENT:   **I CAN**   1. Write an equation for a linear function using a graph 2. Write an equation for a linear function for a table 3. Write an equation for a linear function for two points | |
| **Key Vocabulary:**  Independent and Dependent variable, linear relationship, nonlinear relationship, x-axis, y-axis, variables, function, mathematical model, residual, slope  **HOTS (Questions):**   * What is Income? * What is Profit? * What is a loss? * What happens to the model when you get a group rate? | **Content Specific:**   * How do you identify the slope and the y-intercept of a line from its graph? (The y-intercept is where the line crosses the y-axis. * One way slope can be determined is to identify a whole number rise. * How would you identify the slope and the y-intercept of a line from a table? (When x=0, the associated y-values is the y-intercept.) * If x=0 is not in the table, the slope is determined by identifying the rate of change. * What information do you need to identify the slope of a line and/or other points on a line? (You need the coordinates of two points on the line so that you can find the rise and the run: y2-y1/x2-x1. * How do you use slope and y-intercept to find the equation of a line? (To write the equation of a line, substitute the values for slope for m and the value of the y-intercept for b in the standard equation y=mx+b.   **General Terms:** |
| **Visuals, Materials, & Text**  **TEXT:** Thinking with Mathematical Models  **VISUALS:** None  **MATERIALS:** Labsheet 2.3A (Graphs-1 per group), Labsheet 2.3B (Tables-one per group) | **Accommodations**  **Partners, small groups, master copy of graphs** |
| **Wrap up/Ticket Out**   * Today I learn…..about writing an equation for a table, a graph, or two points. | |

**Tuesday, October 7, 2014/Thursday, October 9, 2014**

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| **Content Standard:**  **Understand the connections between proportional relationships, lines, and linear equations.**   * 8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. *For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.* | **ELP Standard:**  English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics. |
| **Content Objective:**  I can demonstrate knowledge of linear models by solving pairs of simultaneous linear equations. | **Language Objective:**  I can write and orally explain knowledge of linear models by completing Problem 2.5 A-B. |
| * TARGET STATEMENT:   **I CAN**   1. Write an equation for a linear function using a graph 2. Write an equation for a linear function for a table 3. Write an equation for a linear function for two points | |
| **Key Vocabulary:**  Independent and Dependent variable, linear relationship, nonlinear relationship, x-axis, y-axis, variables, function, mathematical model, residual, slope  **HOTS (Questions):**   * What variables affect attendance at each attraction? * How might the probability of rain affect attendance at an amusement park, Movie Theater? | **Content Specific:**   * How do you identify the slope and the y-intercept of a line from its graph? (The y-intercept is where the line crosses the y-axis. * One way slope can be determined is to identify a whole number rise. * How would you identify the slope and the y-intercept of a line from a table? (When x=0, the associated y-values is the y-intercept.) * If x=0 is not in the table, the slope is determined by identifying the rate of change. * What information do you need to identify the slope of a line and/or other points on a line? (You need the coordinates of two points on the line so that you can find the rise and the run: y2-y1/x2-x1. * How do you use slope and y-intercept to find the equation of a line? (To write the equation of a line, substitute the values for slope for m and the value of the y-intercept for b in the standard equation y=mx+b.   **General Terms:** |
| **Visuals, Materials, & Text**  **TEXT:** Thinking with Mathematical Models  **VISUALS:** None  **MATERIALS:** Labsheet 2.3A (Graphs-1 per group), Labsheet 2.3B (Tables-one per group) | **Accommodations**  **Partners, small groups, master copy of graphs** |
| **Wrap up/Ticket Out**   * Today I learn…..about writing an equation for a table, a graph, or two points. | |

**Wednesday, October 8, 2014 (Technology)**

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| * TARGET STATEMENT * I can use technology as a tool to assist me with math concepts. |

**Friday, October 10, 2014**

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| Reward Day |