**ARC Week at Glance**

**Subject: Math Course: A.P. Statistics Grade: 11th – 12th Dates: 9/22 – 9/26**

|  |
| --- |
| **AP Standard ID**: Analyze Bivariate Quantitative Data with Least-squares Regression Lines, Residual plots, Outliers, and Influential Points.**Assessment(s):** [x]  **Quiz** [ ]  **Unit Test** [x]  **MML** [ ]  **Lab** [ ]  **FRQ** |
|  | **Learning Target****(I am learning about…)** | **Criteria for Success****(I can…)** | **Opening***(10 - 15 Mins)* |  **Work-Session***(20 - 25 mins)* | **Closing** *(5 - 10 mins)* | **Literacy Tasks/Focus** |
| *(Include at least one/two formatives\*in any part of the lesson as needed)* |
| **Monday** | I am learning about correlation and lurking variables with quantitative bivariate data. | I can find correlation and determine whether lurking variables or outliers are influencing the relationship observed | “Just Checking” page 154 | Notes, modeling and guided practice on **Chapter 6: Scatterplots: Association and Correlation pages 154 – 157** | Determine the correlation between sales of pistachios and sales of almonds using TI-84 | “Just Checking” page 154Before determining correlation, what would you like to see? And more |
| **Tuesday** | I am learning about correlation and lurking variables with quantitative bivariate data. | I can find correlation and determine whether lurking variables or outliers are influencing the relationship observed | You are given two scatterplots of age and condition ratings for samples of bridges inspected in the Finger Lakes region of New York. Describe the association in each sample: | Notes, modeling and guided practice on **Chapter 6: Scatterplots: Association and Correlation pages 156 – 162** | Complete “What Can Go Wrong”? | Opener- describe the association in each sample. |
| **Wednesday** | I am learning about how to describe bivariate quantitative data. | I can describe and analyze relationships between two quantitative data. | Tylervigen.comSpurious Correlations | **Practice & Review on** **Chapter 6** | Make-up your own spurious correlation**\*MyMathLab 6.1 due Thursday by 8:00 am** | See Closing |
| **Thursday** | I am learning about how to describe bivariate quantitative data. | I can describe and analyze relationships between two quantitative data. |  Share best spurious correlation |  **Quiz on Chapter 6** |  |  |
| **Friday** | I am learning about Least-Squares Regression Lines.(L.S.R.L.) | I can find correlation and determine whether lurking variables or outliers are influencing the relationship observed  | See Scatterplot of protein versus fat content on the entire menu at BK: comment on what you see in the scatterplot. What was added to the scatterplot in the figure below? | Notes, modeling and guided practice for **Chapter 7: Linear Regression pages 171 – 177** | What does the slope tell us, in the context of the BK menu? What does the y-intercept tell us? | See Opening and Closing |

**\***[ ]  Exit Ticket/Final Stretch Check [x]  Electronic Tools [ ]  Dry Erase Boards – quick checks [x]  Turn & Talk Discussion (verbal responses) [x]  Teacher Observation – document Clipboard

 [ ]  Quick Write/Draw [ ]  Annotation [ ]  Extended Writing [x]  Socratic Seminar [ ]  Jigsaw [ ]  Thinking Maps [x]  Worked Examples [ ]  Other : \_\_\_\_\_\_\_\_\_\_\_