**ARC Week at Glance**

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

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| **AP Standard ID**: Analyze Bivariate Quantitative Data with Least-squares Regression Lines, Residual plots, Outliers, and Influential Points.  **Assessment(s):  Quiz  Unit Test  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 154  Before 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.com  Spurious 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  Electronic Tools  Dry Erase Boards – quick checks  Turn & Talk Discussion (verbal responses)  Teacher Observation – document Clipboard

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