**ARC Week at Glance**

**Subject: Math Course: A.P. Statistics Grade: 11th – 12th Dates: 11/4 – 11/8**

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| **AP Standard ID**: Analyze Bivariate Quantitative Data with Least-squares Regression Lines, Residual plots, Outliers, and Influential Points.  **AP Standard IIIA**: Students will be able to simulate random behavior and use their findings to determine and interpret probability.  **Assessment(s):  Quiz  Unit Test  MyMathLab/MathXL  Lab  FRQ’s** | | | | | | |
|  | **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 modeling with bivariate quantitative data | I can analyze bivariate quantitative data with graphs and LSRl’s | FRQ #3 from 2005 | FRQ #1 from 2018 | Vocabulary for  Unit 3  \*Quiz Thursday | Discuss how you would score some student samples using the AP Scoring Rubric |
| **Tuesday** | I am learning about performing simulations to determine probable outcomes. | I can perform simulations of random behavior. | Students guess what color card will be selected with random draws (teacher has a fixed deck- they should become suspicious!) Discuss probabilities. | **Spotlight Task: “A Case of Possible Discrimination”**  **Part I** | **Part II** Begin simulation with partner using 24 red and 24 black cards to represent gender in which top 35 represent promoted. Perform 10 trials and record  \* **VOCABULARY** QUIZ Thursday! | Vocabulary- Quizlet |
| **Wednesday** | I am learning about conducting simulations. | I can perform simulations of random behavior and analyze probability distributions | Gather and record Part II simulationresults for entire class and construct a dot plot for “# of men promoted” | **Complete Spotlight Task: “A Case of Possible Discrimination”** | How would you have decided the discrimination case? Why?  \*REMINDER-**VOCABULARY** QUIZ Thurday! | Discussion/debate discrimination case. |
| **Thursday** | I am learning about conducting simulations. | I can perform simulations of random behavior and analyze probability distributions. | **Vocabulary Quiz** | Chapter 10 Notes and Modeling: Understanding Randomness pages 265 – 269 | Use the TI-84 random integer program to perform 5 more simulations for the cereal box collection | Vocabulary |
| **Friday** | I am learning about planning and performing simulations to model random phenomena. | I can simulate random behavior and use my findings to determine and interpret probabilities. | Compile class data for cereal box collection simulation and determine expected # of boxes needed | Chapter 10 Notes and Modeling: Understanding Randomness pages 270 – 274 | MyMathLab | Describe a simualtion |

**\*** 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 : \_\_\_\_\_\_\_\_\_\_\_