**ARC Week at Glance**

**Subject: Math Course: A.P. Statistics Grade: 11th – 12th Dates: 8/12 – 8/16**

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| **Standard(s): Standard IA**: Students will be able to construct and interpret graphical displays of distributions of univariate data.  **Standard IB**: Students will be able to summarize distributions of univariate data.  **Standard IC**: Students will be able to compare distributions of univariate data.  **Assessment(s):  Quiz  Unit Test  Matching Boxplot Activity  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 shape, center and spread with univariate quantitative data distributions. | I can describe distributions of univariate quantitative data | See Figure 3.1 page 41. How would you describe the distribution? | Notes, modeling, & guided practice on Displaying and Summarizing Quantitative Data pages 40 – 46 | See Figure 3.4 on page 45. Describe the distribution: | Written responses- description must include shape, outliers/gaps/unusual features, center, & spread with context. |
| **Tuesday** | I am learning about shape, center and spread with univariate quantitative data distributions. | I can identify the shape of distributions and use that info to estimate measures of center and spread | In 2016, a total of 8409 students in Georgia took the AP Statistics exam. If we put all the exam scores in small to large order, which position would the median be located? How about Q1 and Q3? | Notes, modeling, & guided practice on Displaying and Summarizing Quantitative Data pages 46 – 55 | Just Checking page 49 | Written and oral responses for just checking page 49. |
| **Wednesday** | I am learning about boxplots and outliers. | I can calculate five number summaries, construct boxplots and check for outliers | Opener: #’s 6 and 8 page 69 | Notes, modeling, & guided practice on Displaying and Summarizing Quantitative Data pages 49 – 55 | # 13 page 70 (Super Bowl Data: points scored by winning team) then #14 for homework | Class **discussion** about #13 with exemplars and Do Nots |
| **Thursday** | I am learning about mean, variance and standard deviation | I can calculate mean, variance and standard deviation by formula and with technology. | Given: n = 6 , med = 81, mean = 86, and mode = 79. The set of data could be? | Notes, modeling, & guided practice on Displaying and Summarizing Quantitative Data pages 55 – 59 | Just Checking  page 59 | Advantages, disadvantages, justifying responses in Just Checking |
| **Friday** | I am learning about shape, center and spread with univariate quantitative data distributions. | I can use shape, outliers, center and spread to match summary statistics and graphs | Matching Boxplots Activity with precheck of first row | Matching Boxplots Activity | Feedback and ongoing checks, questioning and discussions about Matching Boxplots Activity | Communicate thinking on Matching Boxplots Activity |

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