**ARC Week at Glance**

**Subject: Math Course: A.P. Statistics Grade: 11th – 12th Dates: 9/9 – 9/13**

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| **Standard IB:** Students will be able to describe patterns and departures from patterns using positions, percentiles, and standardized scores (z-scores).**Standard IIIC:** Students will be able to describe properties of the Normal distribution and use it as a model for measurements.**Standard IE:** Explore categorical data using frequency tables, bar graphs, two-way tables, and pie charts.**Assessment(s):** [ ]  **Quiz** [ ]  **Unit Test** [x]  **MML** [ ]  **Lab** [x]  **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 how to use properties of Normal distributions to solve problems | I can calculate z-scores and determine probabilities within Normal models | Return **Ch 5 Quiz** then assign**FRQ #3 from 2004B** (Modified) | **FRQ #1 from 2011** | A.P. Grading Rubric  | Discuss AP Grading Rubric and characteristics of essentially correct vs partially correct responses with exemplars |
| **Tuesday** | I am learning how to analyze bivariate categorical data.  |  I can make sense of categorical data using frequency tables and bar graphs.  |  What do you know about the Titanic? Find a fact to share. |  Notes, modeling and guided practice on Chapter 2: Displaying and Describing Categorical Data pages 13 - 20  | Now look at your distribution of Titanic passengers’ class **contingent upon survival**, comment on what you see. | See Opening and Closing |
| **Wednesday** | I am learning how to analyze bivariate categorical data. | I can determine marginal and conditional distributions for categorical variables.  | List the variables of interest, indicate whether each is categorical or quantitative, and if it is quantitative, state the unit of measure in exercises #’s 14, 16, and 18 on page 11.  | Notes, modeling and guided practice on Chapter 2:  Displaying and Describing Categorical Data pages 20 – 22   | What is the denominator when calculating **marginal distributions**?  What is it when calculating **conditional** distributions?**\*MyMathLab 2.1** due Monday by 8:am | **Categorize data** (opener)**Compare** and **contrast** marginal and conditional distributions(closing) |
| **Thursday** | I am learning about graphical displays for categorical data. | I can use bar graphs and pie charts to explore categorical data. | Just Checking page 23 | Notes, modeling and guided practice on Chapter 2: Displaying and Describing Categorical Data pages 23 – 28 | How can you determine whether two events are independent?**\*MyMathLab 2.1** due Monday by 8:am | Explain your reasoning when answering question “Does it seem eye color and gender are independent?” |
| **Friday** | I am learning about Simpson’s Paradox | I can identify Simpson’s paradox when data broken down by groups differs from the group as a whole. | Chapter 2: Displaying and Describing Categorical Data pages 28 – 29Baseball Paradox | #’s 40 and 41 pages 38 - 39 | **Chapter 2 Practice** **\*Formative****\*MyMathLab 2.1** due Monday by 8:am | Read a famous example of Simpson’s Paradox at Berkeley University and discuss |

**\***[ ]  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 : \_\_\_\_\_\_\_\_\_\_\_