**ARC Week at Glance**

**Subject: Math Course: A.P. Statistics Grade: 11th – 12th Dates: 2/3 – 2/7**

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| AP Standard IIIA: Explore **Sampling Distributions** through sample means, sample proportions and simulations, and apply the Central Limit Theorem to these distributions. **Assessment(s):** [x]  **Quiz** [ ]  **Unit Test** [x]  **MyMathLab/MathXL** [ ]  **Lab** [x]  **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 Sampling Distributions. | I can determine probability for proportions of interest using sampling procedures | For Example Using the Sampling Distribution Model for a Proportion  | Notes, modeling and practice on Chapter 17: Sampling Distributions pages 449 – 450 | Step-by-Step Example with sampling distribution of left-handedness\*Formative: MML Chapter 17 due Tuesday 2/7 | What conditions must be checked in order to proceed with Normal models to estimate population parameters for proportions? |
| **Tuesday** |   I am learning about sampling distributions with **proportions**.  |   I can determine probability for proportions of interest using sampling procedures  |   Just Checking page 451   |  Notes, modeling and practice onChapter 17: Sampling Distributions pages 451 – 452   |  Step-by-Step Example with sampling mean weight of adult men in the U.S. \*Formative: MML Chapter 17 due Tuesday 2/7 | What conditions must be checked in order to proceed with Normal models to estimate population parameters for **proportions**?  |
| **Wednesday** | I am learning about sampling distributions with **means**. | I can determine probability for a mean of interest using sampling procedures. | Read Fundamental Theorem of Statistics- what does it tell us about sampling distributions? | Notes, modeling and practice onChapter 17: Sampling Distributions pages 451 – 461  | Read“Simulating the Sampling Distribution of a Mean”pages 453 – 454and #36 for homework! | See Opener |
| **Thursday** | I am learning about sampling distributions with **proportions and means**. | I can determine probability for a proportion of interest using sampling procedures. | <https://onlinestatbook.com/stat_sim/sampling_dist/index.html>and <https://digitalfirst.bfwpub.com/stats_applet/generic_stats_applet_24_sampdistprop.html>Use above applets to model sampling for proportions and means to construct models for inference. Then check and discuss #36 | Check #36 page 469 the complete the**Practice Quiz** **on Chapter 17**\*Formative | Fill-in and compare the Table I gave you: Summary of Sampling Distributions for Proportions and Means | See closing |
| **Friday** | I am learning about sampling distributions with **proportions and means.** | I can determine probability for a proportion of interest using sampling procedures. | Quick Study, model requested MML items | **Quiz on Chapter 17**\*Summative |  | Describe the sampling distribution for the sample proportion by naming the model and telling its mean and standard deviation. Be sure to check conditions. |

**\***[ ]  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 [ ]  Worked Examples [ ]  Other : \_\_\_\_\_\_\_\_\_\_\_