**ARC Week at Glance**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AP Standard IIIA: Explore **Sampling Distributions** through sample means, sample proportions and simulations, and apply the Central Limit Theorem to these distributions.  **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 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 on  Chapter 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 on  Chapter 17: Sampling Distributions  pages 451 – 461 | Read  “Simulating the Sampling Distribution of a Mean”  pages 453 – 454  and #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  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 : \_\_\_\_\_\_\_\_\_\_\_