**ARC Week at Glance**

**Subject: Math Course: A.P. Statistics Grade: 11th – 12th Dates: 1/13 – 1/17**

|  |
| --- |
| AP Standard IIIA: Students will explore discrete random variables and determine their probability distributions, expected value(s), and standard deviation.AP Standard IIIB: Students will be able to combine independent random variables and determine the mean and standard deviation for sums and differences.**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 transformations with discrete random variables. | I can determine expected value and standard deviation with real-world applications. | Return FRQ’s- #5 from 1999 and # 2 from 2003 thenview exemplars and AP Grading Rubrics | FRQ #3 from 2008with guidance | FRQ #2 from 2012with peer | Connect expected value with mean in a discrete random variable distribution, with meaning/context. |
| **Tuesday** | I am learning about discrete random variables. | I can determine expected value and standard deviation for discrete random variables. | Opener: Practice Chapter 15A | Practice Chapter 15B\*Formative | Display exemplars, Q&A with Chapter 15 Practice then take any MML questions \*MML Chapter 15 due Thursday! | What do you know? What do you need to know? |
| **Wednesday** | I am learning about discrete random variables.  | I can determine expected value and standard deviation for discrete random variables. |  | Quiz on Chapter 15\*Summative |  |  |
| **Thursday** | I am learning about Bernoulli trials and **binomial** distributions. | I can determine probability of discrete random variables using **binomial** models. | Read page 1 on “Binomial Probability The Easy Way” and discuss | Complete page 2 on “Binomial Probability The Easy Way” with teacher guidance | Complete page 3 Try It #’s 1 – 2 on “Binomial Probability The Easy Way”\*Formative | See Opening |
| **Friday** | I am learning about Bernoulli trials and **binomial** distributions. | I can determine probability of discrete random variables using **binomial** models. | #1 on Binomial Practice in small groups – teacher checks and gives feedback\*Formative | #’s 2 – 12 YOU CAN CHOOSE TWO TO OMIT on Binomial Practice in small groups.\*Summative- grade |  | Binomial Practice has verbal real-world application problems students must read and process |

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