**ARC Week at Glance**

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

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| 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):  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 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 then  view exemplars and AP Grading Rubrics | FRQ #3 from 2008  with guidance | FRQ #2 from 2012  with 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  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 : \_\_\_\_\_\_\_\_\_\_\_