**ARC Week at Glance**

**-Subject: Mathematics Course: Advance Algebra: Concepts & Connections Grade:** **10th – 12th Date: 8/11/2025**

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| **Standard(s):** AA.DSR.2.2 When collecting and considering data, critically evaluate ethics, privacy, potential bias, and confounding variables along with their implications for interpretation in answering a statistical investigative question. Implement strategies for organizing and preparing big data sets.  AA.DSR.2.3 Distinguish between population distributions, sample data distributions, and sampling distributions. Use sample statistics to make inferences about population parameters based on a random sample from that population and to communicate conclusions using appropriate statistical language.  **Assessment(s):  Quiz  Unit Test  Project  Lab  None** | | | |
|  | **Learning Target**  **(I am learning about…)** | **Success Criteria**  **(I can….)** | **Lesson/Activities of the Day** | **Assignments/Formative Assessment** |
| **Monday** | I am learning to evaluate ethics, privacy, potential bias and confounding variables when interpreting a statistical investigative question | I can evaluate ethics, privacy, potential bias and confounding variables when interpreting a statistical investigative question | * Teacher will review Data Detective Task with students to review various studies, randomization, primary and secondary data. * Teacher will discuss about collecting data and how to evaluate various aspects of the data when answering a statistical investigative question. * Teacher will provide guided practice problems to help students understand the various implications for interpreting and answering a statistical investigative question. * Teacher will provide ways to organize and prepare big data sets | Critical Analysis of Data Sets Classwork 1 |
| **Tuesday** | I am learning to distinguish between various distributions and use sample statistics to make inferences and conclusions | I can distinguish between various distributions and use sample statistics to make inferences and conclusions | * Teacher will review about collecting data and how to evaluate various aspects of the data when answering a statistical investigative question. * Teacher will discuss population distribution, sample data distribution and sampling distribution. * Teacher will discuss how to use sample statistics to make inferences about population parameters (will include randomization of a sample population and drawing conclusions) * Students will be given a prompt and use sample statistics to draw inferences and conclusions (T.O.T.D.) | T.O.T.D over distributions and using sample statistics |
| **Wednesday** | I am learning to distinguish between various distributions and use sample statistics to make inferences and conclusions | I can distinguish between various distributions and use sample statistics to make inferences and conclusions | * Teacher will review about collecting data and how to evaluate various aspects of the data when answering a statistical investigative question. * Teacher will discuss population distribution, sample data distribution and sampling distribution. * Teacher will discuss how to use sample statistics to make inferences about population parameters (will include randomization of a sample population and drawing conclusions) * Teacher (and co-teacher) will break into small groups and 1-on-1 sessions to ensure student learning (based off of teacher observation, formative assessment or student needs) | Critical Analysis and Various Distribution with Sample Statistics Task |
| **Thursday** | I am learning to distinguish between various distributions and use sample statistics to make inferences and conclusions | I can distinguish between various distributions and use sample statistics to make inferences and conclusions | * Teacher will review about collecting data and how to evaluate various aspects of the data when answering a statistical investigative question. * Teacher will discuss population distribution, sample data distribution and sampling distribution. * Teacher will discuss how to use sample statistics to make inferences about population parameters (will include randomization of a sample population and drawing conclusions) * Teacher (and co-teacher) will break into small groups and 1-on-1 sessions to ensure student learning (based off of teacher observation, formative assessment or student needs) | Critical Analysis and Various Distribution with Sample Statistics Task |
| **Friday** | I am learning to distinguish between various distributions and use sample statistics to make inferences and conclusions | I can distinguish between various distributions and use sample statistics to make inferences and conclusions | * Teacher will provide students with assessment over Critical Analysis of Data Sets and Various Distributions * Students will complete assessment | Formative Assessment Critical Analysis of Data Sets and Various Distributions with Sample Statistics Task |

**\*** 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 :\_\_\_\_\_\_\_\_\_\_\_