**Advanced Algebra WAG: Aug 18–22**

**Standards:**

* **S-ID.1** – Represent data with plots on the real number line (dot plots, histograms, and box plots).
* **S-ID.2** – Use statistics appropriate to the shape of the data distribution to compare center and spread of two or more different data sets.
* **S-ID.3** – Interpret differences in shape, center, and spread in the context of the data sets.
* **S-ID.4** – Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages.

**Assessment:**  
☑ Quiz (Friday) ☐ Unit Test ☐ Project ☐ Lab ☐ None ☐ Exit Ticket

| **Day & Date** | **Learning Target** | **Success Criteria** | **Bell Ringer** | **Focused Instruction (I Do)** | **Guided Instruction (We Do)** | **Collaborative (Y’all Do)** | **Independent (You Do)** | **Closing** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Mon** | *I am learning to find measures of central tendency and variation* | *I can calculate mean, median, mode, range, variance, and standard deviation* | Quick practice: Find mean & range from small set | Direct instruction: Review formulas, explain differences in measures | Guided: Work through sample data set step-by-step | Think/Pair/Share: Compare two data sets and their variation | Independent: Practice worksheet on mean, median, mode, range, variance, SD | Exit Ticket: Which measure best describes test scores with an outlier? |
| **Tue** | *I am learning to estimate percentages using the Empirical Rule* | *I can apply the 68-95-99.7 Rule to normal distributions* | Warm-up: Sketch a bell curve | Demonstration: Explain Empirical Rule with visuals | Guided: Shade regions of a normal curve with percentages | Partner activity: Solve guided practice questions | Independent: Apply rule to given distributions | Exit Ticket: About 95% of data falls within how many standard deviations? |
| **Wed** | *I am learning to estimate percentages using z-scores* | *I can calculate z-scores and interpret them in context* | Quick problem: Calculate z-score for simple data | Direct teaching: Formula z=x−μσz = \frac{x - \mu}{\sigma} | Guided: Work through examples together | Group practice: Match z-scores to percent ranges | Independent: Practice problems calculating z-scores | Exit Ticket: What does a z-score of 0 mean? |
| **Thu** | *I am learning to estimate percentages using z-scores (continued)* | *I can use z-scores to estimate probabilities and percentages* | Warm-up: Interpret a z-score from yesterday | Teacher demo: Use z-tables/technology to find areas | Guided: Solve class examples with z-scores | Partner practice: Look up z-values and match percentages | Independent: Practice with z-score percentage problems | Exit Ticket: What percent of data falls below z = 1.2? |
| **Fri** | *I am learning to apply measures of central tendency and variation* | *I can use mean, median, mode, range, variance, and SD to describe data sets* | Bell Ringer: Identify measure that best represents data with outlier | Review: Class discussion on central tendency & variation | Guided: Work through review problems | Collaborative: Small group quiz review game | Independent: **Quiz on Week’s Topics** | Reflection: 3-2-1 (3 things learned, 2 strategies, 1 question) |