Question 7.6 ELO #1 and #2 Proficiency Scale*DRAFT*

CCSS	Mastery	Proficient	Basic	Below Basic	I-No Evidence
7.SP.1 7.SP.2 7.SP.3 7.SP.4	Can extend thinking beyond the standard, including tasks that may involve one of the following: •Designing •Connecting •Synthesizing •Applying •Justifying •Critiquing •Analyzing •Creating •Proving	Examine multiple samples of a population to draw inferences about the population and explain if inferences are valid Compare the differences in the measure of central tendency and variability in two data distributions and draw inferences about the two populations.	Examine multiple samples of a population to draw inferences about the population and determine if a given inference is valid Compare the differences in the measure of central tendency or variability in two data distributions	Examine a sample of a population to draw inferences about the population and determine if a given inference is valid Determine the measures of central tendency (mean, median, and mode) and variation (range, mean deviation, variance, and standard deviation) in data.	Little evidence of reasoning or application to solve the problem Does not meet the criteria in a level 1

I can explain how a sample of a population can allow inferences to be made about a whole population. (7.SP.1)

I can explain how random sampling produces a representative sample of a population. (7.SP.1)

I can explain how sample size affects probability experiments. (7.SP.1)

I can make inferences about a population using a random sample. (7.SP.2)

I can use multiple samples to gauge percent variation. (7.SP.2)

I can explain why multiple population samples generate different data. (7.SP.2)

I can explain how sample size affects the validity of inferences. (7.SP.2)

I can plot numerical data on a dot plot, box plot, and histogram. (7.SP.3)

I can use data from two data sets to determine how much variation there is between sample medians and means. (7.SP.4)

I can make inferences about two populations using sample mean and mean absolute deviation. (7.SP.4)

I can make inferences about two populations using sample median and interquartile range. (7.SP.4)