

Spanish Fork High School

2014/2015 AP Statistics "I can" Statements

**Unit 1: Analyzing Data: Looking for Patterns and Departures from Patterns**

- I can display distributions with graphs.
- I can display distributions numerically.
- I can identify Density Curves and Relative Frequency.
- I can use and identify Normal Distributions.
- I can build Scatterplots.
- I can calculate and interpret Correlation.
- I can calculate Least-Square Regression.
- I can transform numerical data.
- I can identify relationships between Categorical values.
- I can establish Causation.

**Unit 2: Producing Data: Surveys, Observation Studies, and Experiments**

- I can design samples.
- I can design experiments.

**Unit 3: Probability and Random Variables: Foundations for Inference**

- I can simulate real life situations.
- I can produce Probability Models.
- I can identify general probability rules.
- I can identify Discrete and Continuous random variables.
- I can produce and identify Mean and Variance of Random Variables.
- I can use and identify Binomial Distributions.
- I can use and identify Geometric Distributions.
- I can identify Sampling Distributions.
- I can identify Sample Proportions.
- I can identify Sample Means.

**Unit 4: Inference: Conclusions with Confidence**

- I can create and interpret Confidence Intervals.
- I can estimate a Population Mean.
- I can estimate a Population Proportion.
- I can perform Significance Tests.
- I can use Inference to make decisions.
- I can test about a Population Mean.
- I can test about a Population Proportion.
- I can compare Two Means.
- I can compare Two Proportions.
- I can test for Goodness of Fit.

- I can produce Inference for Two-Way Tables.
- I can produce Inference for Regression