

Indiana High School Standards: Math – Probability and Statistics		STEPS												
		1	2	3	4	5	6	7	8	9	10			
Standard 1: Descriptive Statistics	Students gather and display data and use measures of central tendency and variability													
PS 1.1	Create, compare, and evaluate different graphic displays of the same data, using histograms, frequency polygons, cumulative frequency distribution functions, pie charts, scatterplots, stem-and-leaf plots, and box-and-whisker plots. Draw these by hand or use a computer spreadsheet program.										•			
PS 1.2	Compute and use mean, median, mode, weighted mean, geometric mean, harmonic mean, range, quartiles, variance, and standard deviation.					•								
Standard 3: Statistical Inference	Students use confidence intervals and hypothesis tests, fit curves to data, and calculate correlation coefficients.										•			
PS 3.2	Understand hypothesis tests of means and differences between means and use them to reach conclusions.					•								
PS 3.3	Use the principle of least squares to find the curve of best fit for a set of data.					•					•			
PS 4.3	Calculate and interpret the correlation coefficient of a set of data					•					•			