"I Have…Who Has…?"--Activity for Exploring Data topics in AP Stats

I have cases. Who has the characteristics of cases?	I have variables. Who has a display of what values are and how often each occurs?
I have distribution. Who has a graph of a distribution of a variable that uses columns of dots?	I have dot plot. Who has a single number that "condenses" data?
I have a summary statistic. Who has a procedure in which you set up a model that copies a real situation?	I have a simulation. Who has a distribution that looks "rectangular?"
I have a uniform distribution. Who has a distribution that is "bell-shaped?"	I have a normal distribution. Who has the distance on a normal distribution that is used to measure the spread?

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I have standard deviation. **Who has a normal distribution where the mean = 0 and the standard deviation = 1?**	**I have a standard normal distribution.** **Who has a distribution with a tail to the right?**
I have a skewed right distribution. **Who has a distribution with a tail to the left?**	**I have a skewed left distribution.** **Who has the three numbers that divide a distribution into fourths?**
I have quartiles. **Who has the number that divides a distribution into two equal halves?**	**I have the median.** **Who has a distribution with two "peaks?"**
I have a bimodal distribution. **Who has a data point that stands apart from the bulk of the data?**	**I have an outlier.** **Who has a number that divides a distribution into the top fourth and the bottom three-fourths?**

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I have the upper quartile. Who has the number that is the arithmetic average of a set of data?	I have the mean. Who has the number that divides a distribution into the bottom fourth and the top three-fourths?
I have the lower quartile. Who has a distribution with a tail?	I have a skewed distribution. Who has a "peak" in a distribution?
I have a mode. Who has the point where a normal model changes from concave up to concave down?	I have an inflection point. Who has a variable consisting of numbers (that can be compared in a meaningful way)?
I have a quantitative variable. Who has a graph of bars that depicts a quantitative variable?	I have a histogram. Who has a histogram that shows the proportion (or percentage) on the vertical axis?

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I have a relative frequency histogram. **Who has a variable that consists of counts of cases in several categories?**	**I have a categorical variable.** **Who has a plot that depicts the actual numbers in a data set (sometimes divided into the tens digits and the ones digits?**
I have a stemplot. **Who has a graph that shows the frequencies for categorical data (using a bar for each category)?**	**I have a bar graph.** **Who has the two most common measures of center of a distribution?**
I have mean and median. **Who has the location of the mean in a distribution?**	**I have the "balance point" of a distribution.** **Who has the location of a median in a distribution?**
I have the "equal areas point" of a distribution. **Who has the distance between the upper and lower quartile?**	**I have the interquartile range (IQR).** **Who has the five-number summary?**

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I have the minimum, lower quartile, median, upper quartile and maximum values. Who has the graphical display of the 5-number summary?	I have a boxplot. Who has the rule for determining outliers?
I have "If it is more than 1.5 IQR's away from the nearest quartile. Who has a plot that depicts percentiles on the vertical axis?	I have a cumulative percentage plot (or a cumulative relative frequency plot). Who has the square of the standard deviation?
I have variance. Who has 2-variable quantitative data?	I have bivariate data. Who has the difference between the observed value of y and the predicted value of y?
I have the residual. Who has the type of prediction when the x value falls outside the range of the actual data?	I have extrapolation. Who has the term that describes the tendency for the points to fan out at one end of a scatterplot?

I have heteroscedasticity. **Who has the variable on the y–axis?**	**I have the response variable.** **Who has the line for the set of (x, y) data points for which the sum of squares of the residuals is the least?**
I have the Least Squares Regression Line. **Who has the type of prediction when the x value falls inside the range of the data?**	**I have interpolation.** **Who has the variable on the x-axis?**
I have the explanatory variable. **Who has the general approach to fitting lines to data?**	**I have Linear Regression.** **Who has a numerical value between -1 and 1 that measures the strength and direction of a linear relationship of data points?**
I have correlation. **Who has a variable other than the ones being plotted that can possibly explain a scatterplot pattern?**	**I have a lurking variable.** **Who has the proportion of variation in the y's that is explained by the model on the x's?**

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I have the coefficient of variation (r-squared). Who has the difference between the regression line and the major axis of the elliptical cloud (scatterplot)?	I have the regression effect. Who has a famous set of four scatterplots that teach the value of looking at graphs?
I have the Anscombe Data Sets. Who has the scatterplot of residuals?	I have the residual plot. Who has the subjects (or objects) about which data has been collected?