

Strand: I can investigate patterns of association in bivariate data. (8.SP.1-4)			
Standard 8.SP.1: I can construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities.			
<p style="text-align: center;">Learning Targets</p> <ul style="list-style-type: none"> I can describe and interpret patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association. I can collect, record, and construct a set of bivariate data using a scatter plot. I can determine whether the relationship between bivariate data is approximately linear or nonlinear by examination of a scatter plot. 	<p style="text-align: center;">Academic Vocabulary & Notation</p> <ul style="list-style-type: none"> bivariate data, scatter plot, outlier, clustering, positive association, negative association, linear, nonlinear 	<p style="text-align: center;">Question Stems</p> <ul style="list-style-type: none"> What were you thinking when you made decisions or selected strategies to solve the problem? What changes did you have to make to solve the problem? 	<p style="text-align: center;">Possible Assessments</p> <ul style="list-style-type: none"> <u>District CFA Stats/Probability Form A</u> <u>District CFA Stats/Probability Form B</u>
Standard 8.SP.2: I know that straight lines are widely use to model relationships between two quantitative variables.			
<p style="text-align: center;">Learning Targets</p> <ul style="list-style-type: none"> I can recognize that straight lines can be used on scatter plots to model the relationship between two quantitative variables. I can place a straight line on a scatter plot that closely fits the data points. I can judge how well the trend line fits the data by looking at the closeness of the data points. 	<p style="text-align: center;">Academic Vocabulary & Notation</p> <ul style="list-style-type: none"> linear association, scatter plot, trend line, line of best fit 	<p style="text-align: center;">Question Stems</p> <ul style="list-style-type: none"> What does this make you think of? What other math can you connect with this? 	<p style="text-align: center;">Possible Assessments</p> <ul style="list-style-type: none"> <u>District CFA Stats/Probability Form A</u> <u>District CFA Stats/Probability Form B</u>

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Standard 8.SP.3: I can use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.			
<p style="text-align: center;">Learning Targets</p> <ul style="list-style-type: none"> I can use the equation of a linear model to solve problems. I can interpret the meaning of the slope as a rate of change and the meaning of the y-intercept in context given bivariate data. 	<p style="text-align: center;">Academic Vocabulary & Notation</p> <ul style="list-style-type: none"> rate of change, slope, intercept 	<p style="text-align: center;">Question Stems</p> <ul style="list-style-type: none"> I thought of.... I did something like this before when.... How do you know? 	<p style="text-align: center;">Possible Assessments</p> <ul style="list-style-type: none"> <u>District CFA Stats/Probability Form A</u> <u>District CFA Stats/Probability Form B</u>
Standard 8.SP.4: I understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table.			
<p style="text-align: center;">Learning Targets</p> <ul style="list-style-type: none"> I can construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. I can use relative frequencies calculated for rows or columns to describe possible association between the two variables. I can interpret and describe relative frequencies for possible associations from a two-way table. 	<p style="text-align: center;">Academic Vocabulary & Notation</p> <ul style="list-style-type: none"> relative frequency, categorical data, frequency, two-way table, associations 	<p style="text-align: center;">Question Stems</p> <ul style="list-style-type: none"> What would happen if....? The steps I followed were.... What strategy did you use? 	<p style="text-align: center;">Possible Assessments</p> <ul style="list-style-type: none"> <u>District CFA Stats/Probability Form A</u> <u>District CFA Stats/Probability Form B</u>