**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Course: PSYC 1100 Section: \_\_\_\_\_\_\_\_\_\_ Instructor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**CORRELATION**

This activity demonstrates the use of scatterplots to visualize positive and negative relationships.

Watch the following video to answer the questions below:

<https://www.youtube.com/watch?v=jUPkkiW-Q80>

**Positive Correlation**

* What does it mean to say that two variables are positively correlated?

**Negative Correlation**

* What does it mean to say that two variables are negatively correlated?

**Uncorrelated Variables**

* What does it mean to say that two variables are uncorrelated?

**Correlation Coefficient**

* What is a correlation coefficient?

**Why Use It?**

* What value or benefit would a researcher gain by calculating a correlation coefficient rather than simply describing the relationship as a positive correlation or a negative correlation?

**Estimating the Relationship**

* Go to the following link to practice describing correlations from scatter plots:
  + <https://www.khanacademy.org/math/ap-statistics/bivariate-data-ap/scatterplots-correlation/e/positive-and-negative-linear-correlations-from-scatter-plots>
* Go to the following link to practice describing trends from scatter plots:
  + <https://www.khanacademy.org/math/ap-statistics/bivariate-data-ap/scatterplots-correlation/e/interpreting-scatter-plots>

**Causality**

Watch the following video to answer the questions below:

<https://www.youtube.com/watch?v=gxSUqr3ouYA>

* The presence of a correlation between two variables doesn't prove that there is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Why do we still use correlational evidence?