

Data Components Glossary

- *Independent Variable* - Variable that is purposefully changed or manipulated OR variable that is the “cause” in a relationship.
- *Dependent Variable* - Variable that changes in response to the independent variable OR variable that is the “effect” in a relationship.
- *Background Questions* - Questions that are related to the testable question, but are about other aspects of the Topic Area Question or about information that would be necessary to understand in order to interpret and synthesize the data of the testable question.
- *Constants* - Factors within an investigation that are kept the same for all datasets/trials in an attempt to reduce the influence of additional variables on the relationship.
- *Outliers* - Data points that seem to lie outside the realistic possible range of a data set and do not appear to belong with that data set.
- *Types of Data Visualizations* - Use the Key to Data Visualizations from Session 9 to determine what type of data visualization to use, or why the data source/portal provided that type of data visualization of the data.
- *Types of Statistics or Math* - Think about what kinds of math/statistics the students will need to use to understand the data -- averages? lines of best fit?