

| Turn these key words into flash cards! | Cut out each horizontal row, fold on the centerline, and tape together! |
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| analysis | Examining the evidence or observations to identify patterns in the data. |
| constant | A variable that does not change when other variables change. |
| control | A standard used for comparison of test results in an experiment. |
| data table | A table used to organize and record measurements made during an experiment. |
| dependent variable | A variable that changes as a result of changes in other variables. |
| evaluate | To judge something by certain criteria that you have established. |
| experiment | An organized procedure for testing a hypothesis under controlled conditions. |
| graph | A visual display of information or data that can provide a quick way to communicate a lot of information. |

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| (bar) graph | A type of graph in which the length of bars are used to represent data. They are useful for comparing different categories of data. |
| (circle or pie) graph | A type of graph used to represent data as parts of a circle. They are useful when the data is expressed as percentages of a whole. |
| (line) graph | A type of graph that shows the relationship between variables. They are useful for showing changes in variables over time. |
| hypothesis | An explanation for an observation or scientific question that can be tested by investigation. |
| independent variable | The factor that you wish to test during an experiment and that is changed. |
| inference | A logical conclusion developed from the available evidence and prior knowledge. |
| observation | The act of watching and recording an event, characteristic, behavior, or anything else detected with an instrument or with the senses. |

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| prediction | An explanation of what will be observed or what will happen. |
| qualitative observation | Include descriptions of sights, sounds, smells and textures that are not expressed in numbers. |
| quantitative observation | Can be expressed in numbers and include measurements of quantity, time, temperature, mass, distance and volume. |
| scientific method | An organized set of investigation procedures. |
| variable | Any factor that can change during an experiment. |