**Scientific Inquiry Terminology Match Game**

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| **Scientific**  **Law** | **Inverse Relationship** | **Fact** | **Derived**  **Units** | **Control** |
| **Hypothesis** | **Experiment** | **Exponential Relationship** | **Bias** | **Circle**  **Graph** |
| **Confidence** | **Accuracy** | **Objective** | **Precision** | **Theory** |
| **Replicate** | **Quantitative Data** | **Scientific Method** | **Qualitative Data** | **Bar**  **Graph** |
| **Independent Variable** | **Constant** | **Model** | **Line**  **Graph** | **Dependent Variable** |
| **Conclusion** | **Direct Relationship** | **SI (System International)** | **Interference** | **Observe** |
| To use your senses to gather information | A brief explanation of what you observe and think is true | The steps scientists use to create explanations based on the evidence they gathered | An educated guess about the result of an experiment | A scientific statement that is well tested, supported, and verified |
| Observations made by the 5 senses (smell, taste, touch, sight, sound) | Observations made by using measuring instruments (temperature, length, width, etc.) | Part of the experiment that the experimenter will change or manipulate | Part of the experiment that changes as a result of the dependent variable | A standard to compare results to during an experiment |
| Used to represent things that we cannot directly study | Something that can affect how the results of an experiment are viewed | To repeat a study, usually with different participants and in different situations, to confirm the results of a study | A graph used to display data that is not continuous or without units. | A mathematical relationship in which one variable increases while the other decreases |
| A mathematical relationship in which one variable increases while the other increases, or vice versa | The end or finish of an event or process | A situation or state of affairs that does not change | A graph in which successive points (representing data) are plotted and then connected by straight lines | A circular graph having radii dividing the circle into sectors proportional in area and angle to the relative size of the quantities represented. Also called a pie chart. |
| A statement or idea that has been proven truthful | An SI unit of measurement comprised of a combination of the seven base units | A complete, coherent system of units used for scientific work, in which the fundamental quantities are length, time, electric current, temperature, luminous intensity, amount of substance, and mass | A scientific procedure undertaken to make a discovery, test a hypothesis, or demonstrate a known fact | A relationship in which properties will change over time and is expressed in a graph |
| The state of feeling certain about feelings or outcomes of situations; having assurance about the truth of something | The quality or state of being correct or precise; the ability to perform a task with precision | Not influenced by personal feelings or opinions in considering and representing facts; a thing aimed at or sought after | The quality, condition, or fact of being exact or accurate; marked by or adapted for accuracy and exactness | A supposition or system of ideas intended to explain something especially one based on general principles independent of the thing to be tested; a set of principles on which the practice of an activity is based |