**Science Process Skills Pre-Lab:** Match the terms and definitions correctly.

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| A set of procedures that scientists follow in order to gain knowledge about the world. | A scientist proposes the problem that he/she wants to investigate. |
| A potential answer to the question being investigated. | Ordered investigation that is intended to prove or disprove a hypothesis. |
| Knowledge gained through the senses or through the use of scientific equipment. | Comparing the results of the experiment to the prediction posed by the hypothesis. |
| A statement of whether the original hypothesis was supported or refuted by the observations gathered. | Explanation based on an observation and prior knowledge. |
| An educated guess based on good observations about observed events. | Manipulated variable – what the scientist will change or test. |
| Responding variable – what you will observe and measure. | Variables the scientist will control during the investigation. |
| Variables that remain the same throughout the experiment. Used for comparison as the scientist makes observations. | Repeated experiments to provide more consistent and reliable results. |
| Information collected as a result of your observations or measurements. | Chart used to track observations during an investigation or experiment. |
| Visual interpretation of the data collected that allows you to see patterns, trends and relationships. | Observations that use your senses to observe results. |
| Observations that are made using science instruments and are measurable. | Information that supports or refutes scientific theories or hypothesis. |

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| Scientific Method | Question |
| Hypothesis | Experiment |
| Analyze | Observation |
| Conclusion | Trial |
| Constant | Control |
| Independent Variable | Dependent Variable |
| Data | Evidence |
| Graph | Data Table |
| Inference | Prediction |
| Qualitative Observation | Quantitative Observation |