

Scientific Method Foldable Example

<p>Scientific Method- a series of steps in logical order scientists use to solve a problem.</p>
<p>Problem Step- State the problem Research the problem What do I already know? What do I want to find out?</p>
<p>Hypothesis Step- Identify the variables -Independent Variable- the variable the scientist is testing/changing -Dependent Variable (s)- the results -State the Hypothesis- a testable statement based on research and prior knowledge. -When writing the hypothesis include the following: the Independent Variable, the Dependent Variable, and state how they will change.</p>
<p>Experiment Step -In a controlled experiment the scientist tests only ONE Independent Variable at a time. -There needs to be at least one control group- the group that does not get tested with the Independent variable, it is treated 'normally.' -and at least one experimental group- the group that does get tested with the Independent Variable, it is treated 'differently' -Gather Qualitative Data- using the 5 senses -Gather Quantitative Data- using measurements -Gather data BEFORE, DURING, and AFTER the experiment -Analyze the data by putting it in a table or graph</p>
<p>Conclusion Step -State the Hypothesis -Using the data, the scientist will determine if his or hers hypothesis is correct. -Summarize the Experiment</p>
<p>Theory Step If a scientist Hypothesis is test several times and under similar conditions with the same results, then this may lead to a theory. A theory is an idea that is accepted as true because so much evidence support is.</p>

