

Steps	Descriptions	Examples
1. Ask a question	<ul style="list-style-type: none"> <li>- Make observations</li> <li>- Record observations</li> </ul>	<ul style="list-style-type: none"> <li>- Take a video/ picture</li> <li>- Write it down</li> </ul>
2. Do your research	<ul style="list-style-type: none"> <li>- Look up information</li> <li>- Ask an expert</li> <li>- Study</li> </ul>	<ul style="list-style-type: none"> <li>- Google it!</li> <li>- Ask someone</li> <li>- Look in a book</li> </ul>
3. Form a hypothesis	<ul style="list-style-type: none"> <li>- Educated guess</li> <li>- Prediction</li> <li>- “guesstimate”</li> <li>- Has to be testable</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Prediction</b> = has a cause and effect</li> <li>- Write as <b>“If, Then”</b> statement</li> </ul>

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4. <b>Test your hypothesis</b>	<p>- <b>Experiment</b> = organized way to test hypothesis</p>	<p>Parts of an experiment:</p> <ul style="list-style-type: none"> <li>- <b>Control group</b> = standard for comparison, group that is not being tested, still look to for results</li> <li>- <b>Experimental group</b> = group that is being tested, looked to for results</li> <li>- <b>Independent variable</b> = factor that is adjusted by experiment, the 1 thing that can be physically changed by you</li> <li>- <b>Dependent variable</b> = factor that depends on the independent variable, the thing that changes because of the IV, you don't physically change it</li> <li>- <b>Constant variable</b> = factor that doesn't affect the experiment (what is the same between the control and experimental group?)</li> </ul>