

Investigation Planning Template

Directions: Use the statements below to assist you in planning and carrying out your investigation.

1. State the problem you wish to investigate or question you wish to answer.
2. List at least three important pieces of information that you need to know to help you develop a testable hypothesis.
3. Write a testable hypothesis for your investigation. Be sure to write a hypothesis for EVERY scenario tested. *Use the format "If....then..."*
4. Name the independent variable in your investigation. (*What are you changing?*)
5. Name the dependent variable in your investigation. (*What are you measuring?*)
6. What are the units for your independent and dependent variables, *if applicable?*
7. Name at least TWO parts or aspects of your investigation that you will keep controlled. (*What needs to stay the same?*)
8. How do you plan to control these variables?
9. How many times will you conduct your investigation to make it valid?
10. List the materials that will be needed to conduct your investigation.
11. List the step-by-step procedures that are needed to conduct your investigation. (*Be sure to include details of how specifically you are going to do your experiment. Anyone should be able to duplicate your experiment from this detailed description.*)
12. Set-up your data table in the space below: (*Be sure to label each table.*)
13. What data will you collect? How will you collect or obtain this data? What kind of graph will you create?

14. Explain the relationship between your independent and dependent variables. Explain why you expect this relationship (based on the background information that you gathered).