

Name: _____

Section: _____

Six Steps to Solving a Problem

“The Scientific Method”



Step One: Identify the Problem or Question

State the problem to be solved or the question to be answered.



Step Two: Collect Information/Research

Obtain facts and ideas from books, journals, internet, etc. that provide insight regarding your problem/question. It is important to organize and cite these resources.



Step Three: Form a Hypothesis

Based on the information/research you collect, propose a solution or “best guess” that will help guide your experimentation and attempt to answer the proposed problem/question.



Step Four: Test Your Hypothesis - “Experiment”

Describe, design, and conduct an experiment that would give you information or data that supports (or not) your hypothesis.

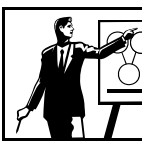


OR



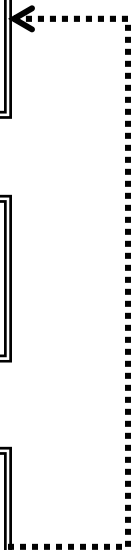
Step Five: Accept or Reject Your Hypothesis – “Analysis”

Determine whether your data/results from the experiment supports (or not) your hypothesis; if not, it may be necessary to review your information/research and revise your hypothesis.



Step Six: Report Your Results

Formulate a conclusion that answers the original question from step one and share the results with the scientific community (or the community at large).



*Be aware that these are the basic steps of the Scientific Method, however, you may see variations of this