

Worksheet Two – Purpose/Hypothesis

Submit the purpose in the form of a statement

Now it is time to turn Topic Question of your experiment into a statement. For example, the topic question “Does Temperature Affect the Dissolution Rate of Sugar?” can be written in the form of a purpose statement: The Purpose of this experiment is to determine if temperature affects the rate at which sugar dissolves.

Submit the hypothesis as an “If... then.... Statement

You should have an educated guess based on your background knowledge. This educated guess about the answer to your topic question is called the hypothesis.

The hypothesis must be worded so that it can be tested in your experiment. Write the hypothesis using your independent variable (the variable you change during your experiment) and your dependent variable (the variable you observe/measure- the dependent variable depends on changes in the independent variable). Hypotheses are stated in this format: “If a specific independent variable is changed, then there is a change in a dependent variable.” Example from the above purpose: “If the temperature (independent v.) of a cup of water is raised, then the amount of sugar (dependent v.) that dissolves will increase.”

Name: _____ Date: _____

Purpose:

Hypothesis:

Parent Signature:

.....
Date Received: _____ Approved Yes / No

Next Step: Revise and re-submit (or) Work to complete Materials/Procedure

Comments:
