



Nature of Science

Science Skills & Experimental Design Flipbook

Purpose: To review the science skills used in designing an experiment.

Begin by describing each of these skills **using your own words**. Use your handouts & textbook as needed.

Problem / Question:

Prediction / Hypothesis:

Background Information / Research / Literature Review:

Procedure / Materials:

Data Collection:

Data Analysis:

Conclusions / Reflections / Retests / Expansion:

Communication:

3 types of variables (independent, dependent, controlled):

Make a flipbook using your descriptions.

1. Get 2 sheets of white paper and 2 sheets of yellow paper.
2. Layer your paper white-yellow-white-yellow-white. Begin with a white piece of paper.
3. Fold the papers in two so that you have 8 layered pages (see example).
4. Following the example, write each of the science skills you have described on the flaps of the book.
5. Underneath the flap, describe the skill and draw at least one picture that represents the skill.

Experimental Design
Problem / Question
Background Research
Prediction / Hypothesis
Materials & Procedures
Data Collection
Data Analysis
Conclusions
Types of Variables

Since you are using **yellow paper** to make this book, you know that you will need to keep it all year long. It will become another resource for you in this class.