



# SCIENTIFIC METHOD WORKSHEET

Name:

Go to the [Scientific Method Webpage](#) to answer the following questions.

This worksheet is to help you go through the Scientific Method Webpage and learn the process to create your own science experiment. Do NOT take the test on the first page until you have finished this worksheet. For each step, you will read, look at pictures, watch a video, listen to a Podcast, then take a quiz to see what you learned.

1. Click on **Observation**.

- a. What is the difference between a qualitative and quantitative observation?
- b. List the five senses and give an example of how you used each today.
  - 1.
  - 2.
  - 3.
  - 4.
  - 5.
- c. What did you learn from the Podcast?
- d. What did you learn about inferences from the video?

2. Click on **Scientific Question**

- a. complete the table with these words: best, length, time, taste, weight, big, quick, speed

Measurable	Non-Measurable

- b. Why should a scientific experiment be measurable?
- c. What did you learn from the video or Podcast?

3. Click on **Variables**

- a. Explain the difference between the Independent Variable and Dependent Variable.
- b. Why are constant variables important in an experiment?
- c. Why is the independent variable the only thing that changes?
- d. What is the relationship between the Independent Variable and Dependent Variable.
- e. Summarize in 3 sentences how the Podcast explains the difference between the Independent, Dependent and Constant Variables.

4. Click on **Hypothesis**