

# St. Andrews Scots School

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Session: 2026-2027 - Worksheet -1

**Class: VIII    Subject: Science    Chapter: Exploring the investigative world of science**

## **Q.1.Fill in the blanks:**

- a. Scientific investigation begins with a careful \_\_\_\_\_ .
- b. A possible explanation for an observation is called a \_\_\_\_\_.
- c. The factor that is changed in an experiment is called the \_\_\_\_\_ variable.
- d. Experiments should be \_\_\_\_\_ to ensure accuracy.
- e. Observations based on senses are called \_\_\_\_\_ observations.

## **Q.2.State whether the statement is true or false:**

- a. Scientific investigation starts with guessing.
- b. All variables should be changed during an experiment.
- c. Recording data helps in drawing conclusions.
- d. Tools improve the accuracy of observations.
- e. Data and observations are the same thing.

## **Q.3. Answer the following questions:**

- a. What is meant by scientific investigation?
- b. Name any five tools used in scientific experiments.
- c. What is the role of variables in an experiment?
- d. Can an experiment be valid without a hypothesis? Justify your answer.
- e. Design an investigation to find out which material (cotton, wool, plastic) is the best insulator of heat?