

St. Andrews Scots Sr. Sec. 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:

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

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

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

Q.3. Answer the following questions:

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