

1. What is biology?
2. Explain what is meant by the term 'observation' in relation to the scientific method.
3. Explain the following terms:
 - a. Hypothesis
 - b. Data
 - c. Replicate
 - d. Theory
 - e. Principle
4. What is the purpose of experimentation in relation to the scientific method?
5. Outline the steps of the scientific method that follow the design of an experiment.
6. What is the purpose of drawing a conclusion in an experiment?
7. Suggest where a scientist may publish the results of their investigations.
8. Why is it important that scientists publish the results of their research?
9. How does peer review contribute to the quality of scientific research?
10. What does reproducibility mean in the context of scientific experiments?
11. State two limitations of the value of the scientific method.
12. How can our ability to interpret the results influence the value of the scientific method?
13. How can the extent of our knowledge influence the value of the scientific method?