



Class 9 Science | Exploration: Entering The World Of Secondary Science

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. To test how light affects seedling growth, which factor should be changed?

- A. Light exposure
- B. Seed species
- C. Water quantity
- D. Soil type

2. In a fair fertiliser test, the untreated plants serve as the:

- A. Conclusion
- B. Dependent variable
- C. Control group
- D. Measuring unit

3. A student records water temperature every minute. The measured variable is:

- A. Thermometer brand
- B. Beaker label
- C. Temperature
- D. Time interval selected

4. Which claim is a testable hypothesis?

- A. Green is the best colour
- B. Science is always easy
- C. More light increases this plant's growth
- D. This flower is the prettiest

5. Three length readings are 12.1, 12.3 and 12.2 cm. Their mean is:

- A. 12.2 cm
- B. 12.0 cm
- C. 12.3 cm
- D. 36.6 cm

6. Why repeat a measurement several times?

- A. Change the hypothesis
- B. Guarantee a preferred result
- C. Remove all possible errors
- D. Reduce effects of random variation

7. Which is an observation rather than an explanation?

- A. A reaction probably occurred
- B. Copper ions must be present
- C. The cause was heating
- D. The solution turned blue

8. A thermometer has marks 1°C apart. Its smallest marked interval is:

- A. 100°C
- B. 0.1°C
- C. 10°C
- D. 1°C

9. A 25 mL liquid volume is read best using a:

- A. Spring balance
- B. Measuring cylinder
- C. Stopwatch
- D. Metre scale

10. Which action best reduces parallax while reading a scale?

- A. View the mark at eye level
- B. Tilt the instrument
- C. Close both eyes
- D. View from well above

11. An experiment disagrees with a prediction. The best response is to:

- A. Stop reporting results
- B. Change data to fit
- C. Delete all unexpected readings
- D. Check the method and reconsider the explanation

12. A graph of temperature against time should place time on the:

- A. Vertical axis only
- B. Legend only
- C. Title only
- D. Horizontal axis

13. Which record allows another student to repeat an experiment?

- A. A decorative drawing only
- B. Student's name alone
- C. Conclusion alone
- D. Method, quantities and conditions

14. Which is the safest way to investigate an unknown laboratory liquid?

- A. Follow the teacher's approved procedure
- B. Taste a drop
- C. Smell it directly
- D. Mix it with every chemical

15. A model of an atom is useful because it:

- A. Has no limitations
- B. Represents selected features of a tiny system
- C. Proves every theory forever
- D. Is an actual enlarged atom

ANSWER KEY — check after completing all 15 questions

1.A 2.C 3.C 4.C 5.A 6.D 7.D 8.D 9.B 10.A 11.D 12.D 13.D 14.A 15.B