



MINI TEST – SET 6

SCIENCE EXPERIMENTS & FAIR TESTING



Choose the correct answer (A, B, C or D) for each question.

1 Effect of Light on Algae

A student wants to find out how light affects the production of oxygen by algae. The same amount of algae is placed in three beakers with water and sodium bicarbonate. Each beaker is placed under a different light condition.



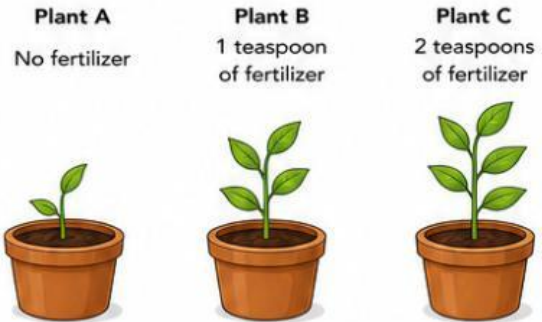
After 30 minutes, the student counts the number of bubbles of oxygen.

What is the independent variable?

- A. The number of bubbles
- B. The amount of algae
- C. The light condition
- D. The type of beaker

2 The Effect of Fertilizer on Plant Growth

Three identical plants are grown in the same type of soil. Each plant receives the same amount of water and sunlight. Different amounts of fertilizer are added.



After 2 weeks, the height of each plant is measured.

What is the dependent variable?

- A. The amount of fertilizer
- B. The height of the plant
- C. The amount of water
- D. The type of soil

3 Pendulum Length Test

A student investigates how the length of a pendulum string affects the time taken for one swing. The same bob is used.

String length	10 cm	20 cm	30 cm
Diagram			

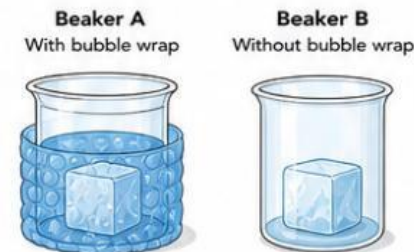
The student measures the time for one complete swing.

What is being changed in this experiment?

- A. The weight of the bob
- B. The length of the string
- C. The starting position
- D. The time for one swing

4 Insulation and Ice Melting

Two beakers each contain one ice cube of the same size. Beaker A is wrapped with bubble wrap. Beaker B is left unwrapped.



The student measures how long it takes for the ice to melt completely.

What should be kept the same to make it a fair test?

- A. The size of the beaker
- B. The size of the ice cube
- C. The type of wrapping
- D. The room temperature

5 Ramps and Foam Blocks

A student releases the same toy car from the same height on ramps made from different materials. The time taken for the car to reach the bottom is recorded.



Which material will most likely give the fastest time?

- A. Cardboard
- B. Plastic
- C. Metal
- D. All will be the same

6 Effect of Sugar Amount on Yeast

Three bottles each contain warm water (100 mL) and yeast. Different amounts of sugar are added. A balloon is fitted on each bottle.



After 30 minutes, which measurement shows the effect of sugar amount?

- A. The volume of water
- B. The size of the balloon
- C. The temperature of the water
- D. The color of the sugar



GOOD LUCK!



LIVEWORKSHEETS