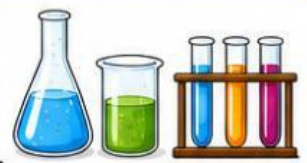




# MINI TEST – SET 10

## SCIENCE EXPERIMENTS & FAIR TESTING

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



### 1 Effect of Light on Mold Growth

A student wants to find out how light affects the growth of mold on bread.

She places three identical slices of bread in sealed bags and keeps them in different light conditions.

**Bag A**  
In sunlight



**Bag B**  
In the dark



**Bag C**  
In dim light



After 5 days, she compares how much mold grew.

What is the independent variable?

- A. The amount of mold
- B. The type of bread
- C. The light condition
- D. The number of days

### 2 Renewable Energy – Which is it?

The pictures below show different sources of energy. Which one is a renewable energy source?

A.



Coal

B.



Wind Energy

C.



Natural Gas

D.



Petroleum (Oil)





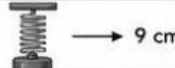
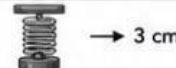
### 3 Spring Stretch Investigation

A student investigates how different types of springs and the same weights affect how far they stretch.

He uses two different springs.

Spring X is a soft spring (thin coils).

Spring Y is a stiff spring (thick coils).

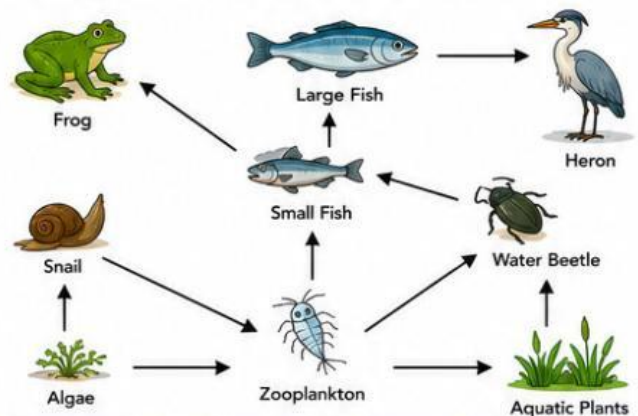
Weight added	Spring X (soft spring – thin coils)	Spring Y (stiff spring – thick coils)
50 g	 → 3 cm	 → 1 cm
100 g	 → 6 cm	 → 2 cm
150 g	 → 9 cm	 → 3 cm

What is the independent variable?

- A. The type of spring
- B. The amount of weight added
- C. The length the spring stretches
- D. The material of the spring

### 4 Food Web in a Pond

The diagram below shows a food web in a pond.



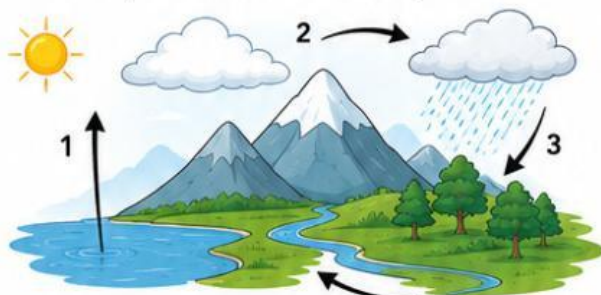
If the zooplankton population suddenly decreases, which organisms are most likely to be affected first?

- A. Large fish and heron
- B. Small fish and water beetles
- C. Frogs and snails
- D. Aquatic plants and algae



### 5 Water Cycle in Action

The diagram below shows the water cycle.



Which number shows where water collects in rivers, lakes, and oceans?

- A. 1
- B. 2
- C. 3
- D. 4

### 6 Which Insulation Works Best?

Three identical cups contain hot water (150 mL). Each cup is wrapped with a different material.

The temperature of the water is measured after 30 minutes.

**Cup A**  
Wrapped with aluminum foil



**Cup B**  
Wrapped with bubble wrap



**Cup C**  
Wrapped with cotton cloth



Which material is the best insulator?

- A. Aluminum foil
- B. Bubble wrap
- C. Cotton cloth
- D. All are the same



GOOD LUCK!



LIVEWORKSHEETS