



MINI TEST – SET 7

SCIENCE EXPERIMENTS & FAIR TESTING



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

1 Water Temperature and Dissolving

A student wants to find out how water temperature affects how fast salt dissolves.
Three beakers each contain 100 mL of water.
The student adds 1 teaspoon of salt to each beaker and stirs at the same speed.

Beaker A
Cold water
(10°C)



Beaker B
Warm water
(30°C)



Beaker C
Hot water
(60°C)



The student measures how long it takes for the salt to dissolve completely.

What is the independent variable?

- A. The amount of salt
- B. The temperature of the water
- C. The speed of stirring
- D. The size of the beaker

2 Effect of Sunlight on Evaporation

Three identical trays each contain 50 mL of water.
They are placed in different sunlight conditions.

Tray A
In sunlight



Tray B
In shade



Tray C
Indoors (no sun)



The student measures how much water is left after 3 hours.

What should the student measure?

- A. The color of the tray
- B. The amount of water left
- C. The size of the tray
- D. The type of surface

3 Spring Stretch Experiment

A student hangs different weights from the same spring and measures how far it stretches.
The spring used is the same for all trials.

Weight added	50 g	100 g	150 g
Diagram			

What is the dependent variable?

- A. The weight added
- B. The length of the spring
- C. The type of spring
- D. The shape of the weight

4 Insulation and Temperature

Two bottles contain the same amount of hot water (200 mL).
Bottle A is wrapped with a thick towel.
Bottle B is not wrapped.



Bottle A
With towel



Bottle B
Without towel

The student measures the temperature of the water every 10 minutes for 40 minutes.

What is the purpose of this experiment?

- A. To change the color of the bottle
- B. To find out how insulation affects temperature
- C. To test different types of water
- D. To see which towel is better

5 Soil Type and Water Drainage

A student wants to find out which soil type drains water the fastest.
Three funnels are filled with different soils.
Each funnel receives 100 mL of water.

Soil A
Sand



Soil B
Garden soil



Soil C
Clay



How will the student know which soil drains fastest?

- A. By checking the color of the water
- B. By measuring the time taken for the water to drain
- C. By tasting the soil
- D. By weighing the soil

6 Effect of Liquid Type on Rusting

Three iron nails are placed in different liquids.
The same size and type of nails are used.

Beaker A
Tap water



Beaker B
Salt water



Beaker C
Oil



After 5 days, the student checks which nail has rusted the most.

What is the independent variable?

- A. The amount of liquid
- B. The type of liquid
- C. The size of the nail
- D. The time left for 5 days



GOOD LUCK!



LIVEWORKSHEETS