GRADE 5 SCIENCE MINI TEST – SET 2

SCIENTIFIC EXPERIMENTS & INVESTIGATION SKILLS

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

1 Planning an Experiment

A student wants to find out:

Does light affect plant growth?



The student keeps all other factors the same.

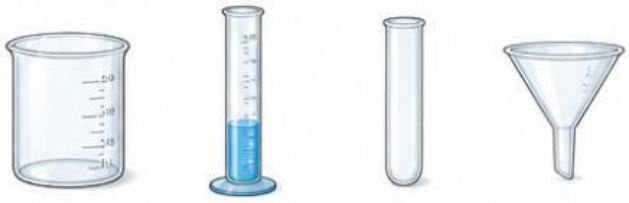
What is the **independent variable?**

A. Type of soil
B. Amount of water
C. Light condition
D. Plant height

2 Choosing Equipment

A student needs to measure 50 mL of water accurately.

Which apparatus should be used?

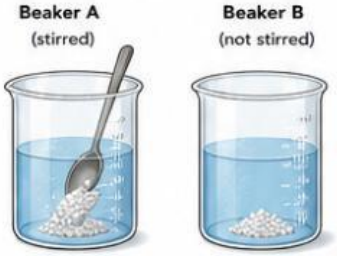


A Beaker
B Measuring cylinder
C Test tube
D Funnel

3 Fair Test

A student wants to find out:

Does stirring affect how fast salt dissolves in water?



The student:

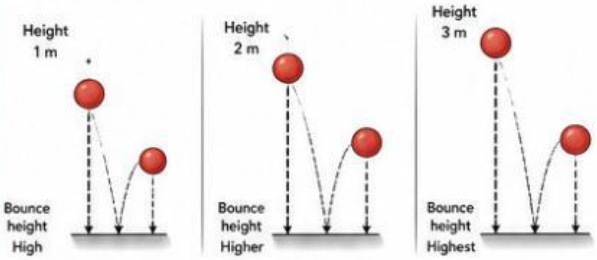
- uses the same amount of salt
- uses the same volume of water
- uses the same temperature
- uses identical beakers
- measures how long it takes for the salt to dissolve completely

Which variable is the student changing?

A. Amount of salt
B. Stirring
C. Water temperature
D. Beaker size

4 Observing Changes

A ball is dropped from different heights and the bounce height is measured.



What can be concluded from the results?

A. The higher the drop, the higher the bounce.
B. The ball becomes heavier when dropped.
C. The floor affects the bounce.
D. The ball disappears after bouncing.

5 Measuring Time

Which instrument is used to measure the time shown in the diagram?



A. Stopwatch
B. Thermometer
C. Balance
D. Ruler

6 Variables in an Experiment

A student pours the same amount of hot water into two cups. One cup is covered with a lid. The other cup is left uncovered.



The student measures the temperature of the water every 5 minutes.

What is the dependent variable in this investigation?

A. The type of lid
B. The temperature change
C. The colour of the cup
D. The amount of water

7 Recording Results

A student rolls a toy car down a ramp three times and records the distance travelled.

Trial	Distance travelled (cm)
1	120
2	119
3	121



Why does the student repeat the experiment?

A. To make the experiment more exciting
B. To make the results more accurate and reliable
C. To change the answer
D. To finish the experiment quickly

8 Safety in Experiments

A student is mixing a chemical solution.



Which safety equipment should the student wear to protect the eyes?

A. Gloves
B. Safety goggles
C. Apron
D. Face mask

9 Drawing Conclusions

A student grows three groups of plants using different amounts of fertiliser for one month.

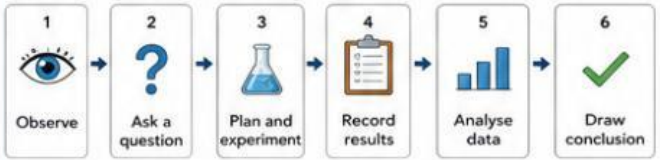


What is the best conclusion?

A. More fertiliser always helps plants grow.
B. The right amount of fertiliser helps plants grow best.
C. Plants do not need fertiliser to grow.
D. Too much fertiliser does not harm plants.

10 Scientific Skills

The diagram shows the steps in a scientific investigation.



Which step comes immediately after recording results?

A. Observe
B. Analyse data
C. Ask a question
D. Draw conclusion

LIVEWORKSHEETS