ASMOPSS THAILAND 2026

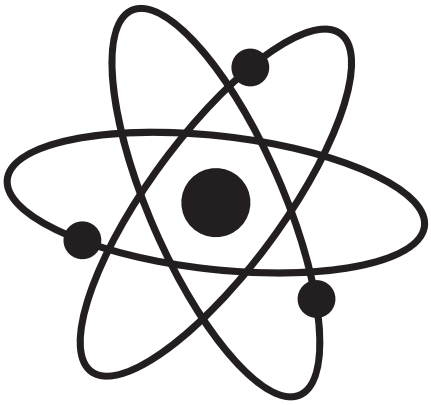
Asian Science & Mathematics Olympiad for Primary and Secondary Schools (Thailand)

Science Primary G.2

Sunday, August 9, 2026

10:30 a.m. – 12:00 p.m. (90 minutes)

B



Instructions

1. This exam includes 30 questions, with 4 choices given (100 marks).
2. Use a 2B black pencil or darker one to fill in the circle.
3. Fill out your name, grade, school, test center, room, seat number, and identification number either in pen or in pencil.
4. If you want to change an answer that you have already marked, use a clean eraser to erase the incorrect answer and mark the new one.
5. It should be noted that figures in the exam are not drawn to scale.
6. Dictionaries, calculators, and electronic devices are not permitted in the test room.
7. Note taking can be done on the test paper only, with no extra sheet provided.
8. Do not write anything or make any symbols in the black barcode area along the edge of the paper except the answers on the answer sheet. Make sure the answersheet is not crumpled.
9. Submit the answer sheet to the proctor when the time is up.
10. Cheating in the exam may cause serious consequences including disqualification from receiving any award or joining the second round of the test held by ASMOPSS THAILAND.

Should any disagreement arise, the judgment of the panel is deemed final.

Announcement of the results via https://asmopssthailand.com on September 14, 2026

: ASMOPSS Thailand / Miraah Education

Contact US

LINE @asmopss.thailand

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Instructions :

1. Each question carries a different score, as indicated at the end of the question.
2. Students must select only the one best answer for each question.

1. Which of the following is a living thing? (2.5 marks)

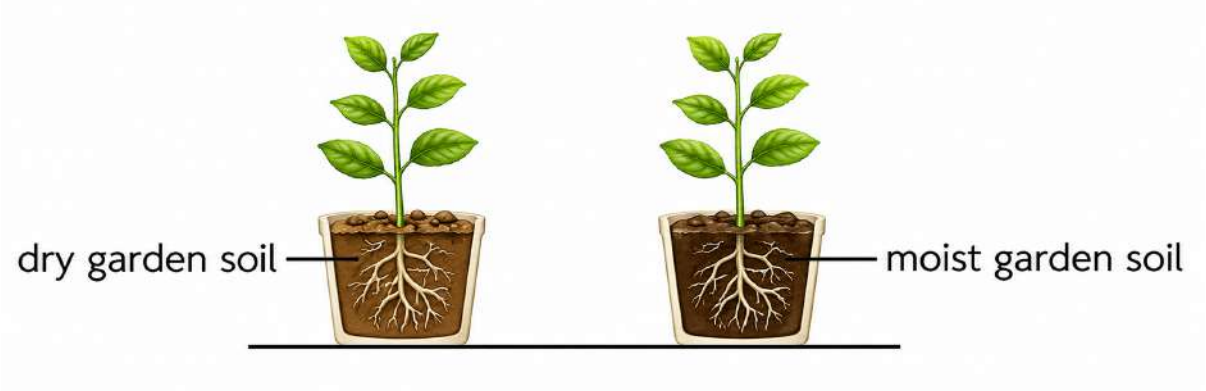
1. 

2. 

3. 

4. 

2. Two plants, one grown in dry garden soil and one grown in moist garden soil, were placed near the window. The plant in moist garden soil was watered daily. After two weeks, the plant in moist garden soil had flowers, while the plant in dry soil did not. Which condition was the plant grown in dry garden soil lacking?
(2.5 marks)



1. Air
2. Nutrients
3. Warmth
4. Water

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3. The flower shown has large and brightly coloured petals.



Why does the flower have large and brightly coloured petals? (2.5 marks)

1. To store food
2. To attract insects to disperse its seeds
3. To attract insects to help pollinate the flower
4. To absorb as much sunlight as possible

4. Joshua classified a group of animals in the table shown below.

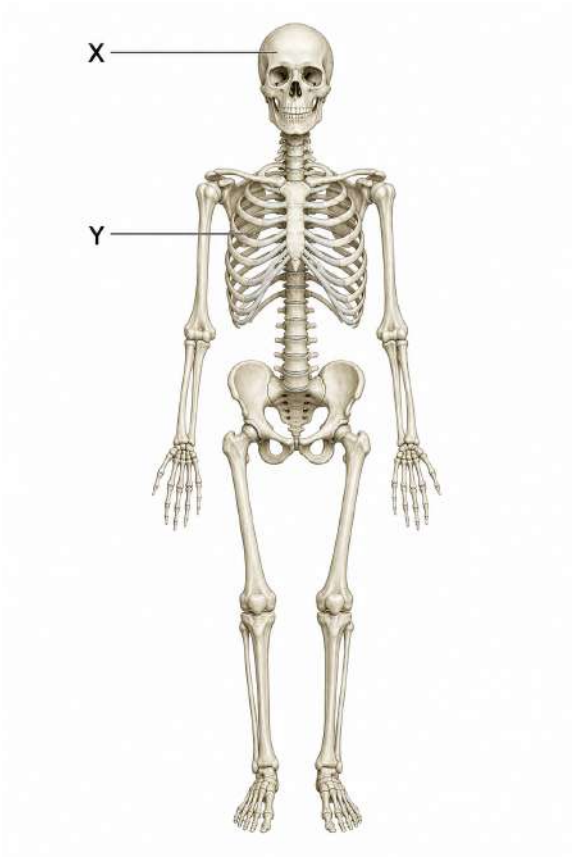
A		B	
Chicken 	Clownfish 	Tiger 	Hippopotamus 
Dragonfly 	Frog 	Guppy 	Whale 

Which characteristic did Joshua use to classify the animals? (2.5 marks)

1. Where they live
2. How they move
3. What they eat
4. How they reproduce (laying eggs / giving birth)

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5. What is the main function of the bones labelled X and Y? (2.5 marks)



1. To help the body move
2. To protect internal organs
3. To support the body weight
4. To give the body its shape

6. Which group consists entirely of external body organs? (2.5 marks)

1. Arms, hands, eyes and heart
2. Lungs, legs, feet, and stomach
3. Nose, eyes, and ears
4. Ears, small intestine, and brain

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7. Students want to choose a suitable time for a stargazing activity. The sky conditions at different times are shown in the table below. (2.5 marks)

Time	Sky conditions
10:00 a.m.	The sky is clear and very sunny.
3:00 p.m.	The sky is clear and still sunny.
7:30 p.m.	The sky is dark and cloudless.
10:00 p.m.	The sky is dark with thick clouds.

Which time is most suitable for observing stars, and why?

1. 10:00 a.m., because the sky is the clearest.
2. 3:00 p.m., because there is still sunlight.
3. 7:30 p.m., because the sky is dark and there are no clouds.
4. 10:00 p.m., because it is late at night and there are thick clouds.

8. Study the objects below carefully.

			
Woollen sweater	**Wooden spoon**	**Rubber hose**	**Cotton blouse**

The objects shown above are grouped together because they _____.

(2.5 marks)

1. are living things
2. can be stretched
3. are made from plants
4. are non-magnetic

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9. Which activity shows that sound is produced by a vibrating object? (2.5 marks)

1. Plucking a stretched rubber band and observing it move back and forth
2. Placing a metal spoon on a table
3. Leaving a sheet of paper inside a book
4. Putting a wooden block on the floor

10. On the way to school, Min heard the following sounds:

- thunder
- a car horn
- birds singing
- a drum in a parade

Which option correctly classifies the sources of sounds? (2.5 marks)

1. Man-made sounds : thunder and birds singing
   Natural sounds : a car horn and a drum
2. Man -made sounds : a car horn and a drum
   Natural sounds : thunder and birds singing
3. Man -made sounds : birds singing and a drum
   Natural sounds : thunder and a car horn
4. Man-made sounds : thunder and a car horn
   Natural sounds : birds singing and a drum

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11. The roots of a plant were badly damaged. Which of the following functions would be directly affected? (3.5 marks)

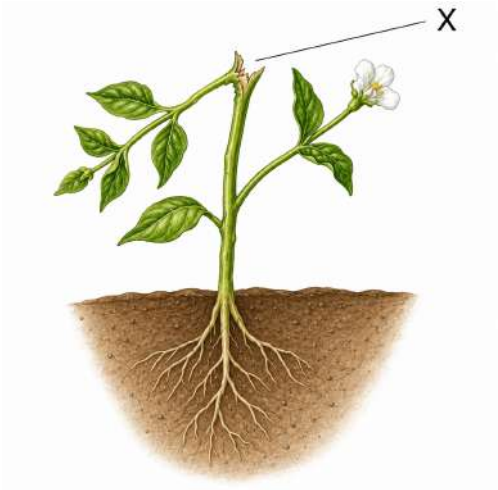
A : Taking in light energy to make food

B : Absorbing water and mineral salts from the soil

C : Holding the plant firmly in the soil

1. C only
2. A and B only
3. B and C only
4. A, B, and C

12. Study the plant shown below.



The stem of the plant breaks completely at point X. Which of the following is most likely to happen? (3.5 marks)

1. The whole plant will die.
2. The whole plant will remain healthy.
3. The part above point X will remain alive.
4. The part below point X will remain alive.

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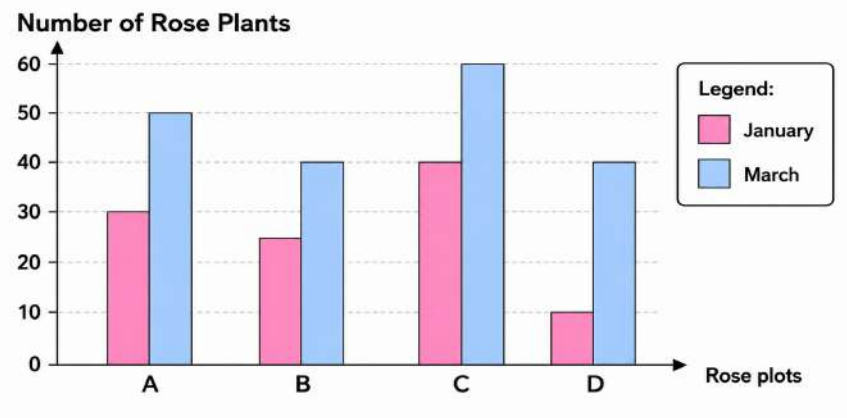
13. Study the two groups of objects below.

Group A	Group B
Tea leaf	Glass cup
Paper bag	Iron nail
Wool scarf	Brick
Jam	Wall tile

How are the two groups of things different? (3.5 marks)

Choice	Difference between things in	
	Group A	Group B
1.	Living things	Non-living things
2.	Can be recycled	Cannot be recycled
3.	Made from plants	Made from animals
4.	Made from materials that were once part of living things	Made from materials that were never part of living things

14. Study the graph showing the number of rose plants in four plots of land, A, B, C, and D, in January and March.



Which plot shows the greatest increase in the number of rose plants from January to March? (3.5 marks)

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

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15. Yaya observed the weather conditions to find out whether they were related to the number of dragonflies found in her garden. She counted the number of dragonflies each day for seven days and recorded her observations in the table below.

Day	Type of weather	Total number of dragonflies
Monday	clear	4
Tuesday	rainy	17
Wednesday	clear	3
Thursday	cloudy	8
Friday	rainy	15
Saturday	cloudy	7
Sunday	clear	5

Which conclusion is best supported by her observations? (3.5 marks)

1. More dragonflies are observed on clear days.
2. More dragonflies are observed on rainy days than on clear or cloudy days.
3. Fewer dragonflies are observed on cloudy days than on clear days.
4. The number of dragonflies observed is not related to the weather conditions.

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16. The diagram below shows some birds that can fly and some that cannot.

Can fly	Cannot fly
	 

Which characteristics are shared by both groups of birds? (3.5 marks)

A : They have teeth.

B : They have beaks.

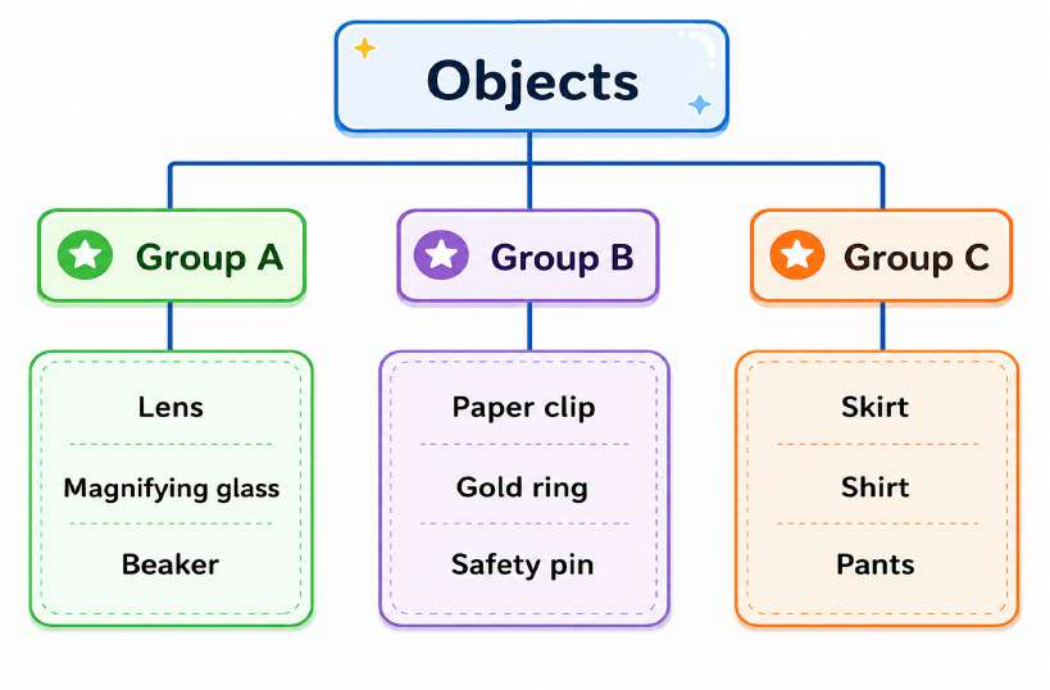
C : They have two feet.

D : They have feathers covering their bodies.

1. B and C only
2. A, B, and C only
3. B, C, and D only
4. A, B, C, and D

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17. Study the classification chart below.



The objects in the chart are classified according to _____. (3.5 marks)

1. their size
2. their colours
3. what they are used for
4. what they are made of

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18. A student examined four rock samples and recorded their characteristics in the table below.

Rock sample	Characteristics
P	Very hard, dense, heavy, resistant to impact and does not break easily
Q	Lightweight, has many small holes and a rough surface
R	Smooth surface and shiny but breaks easily when struck
S	Soft and can easily be scraped into a powder

Which rock samples should be used to make a mortar and a body-scrubbing stone, respectively? (3.5 marks)



a mortar



a body-scrubbing stone

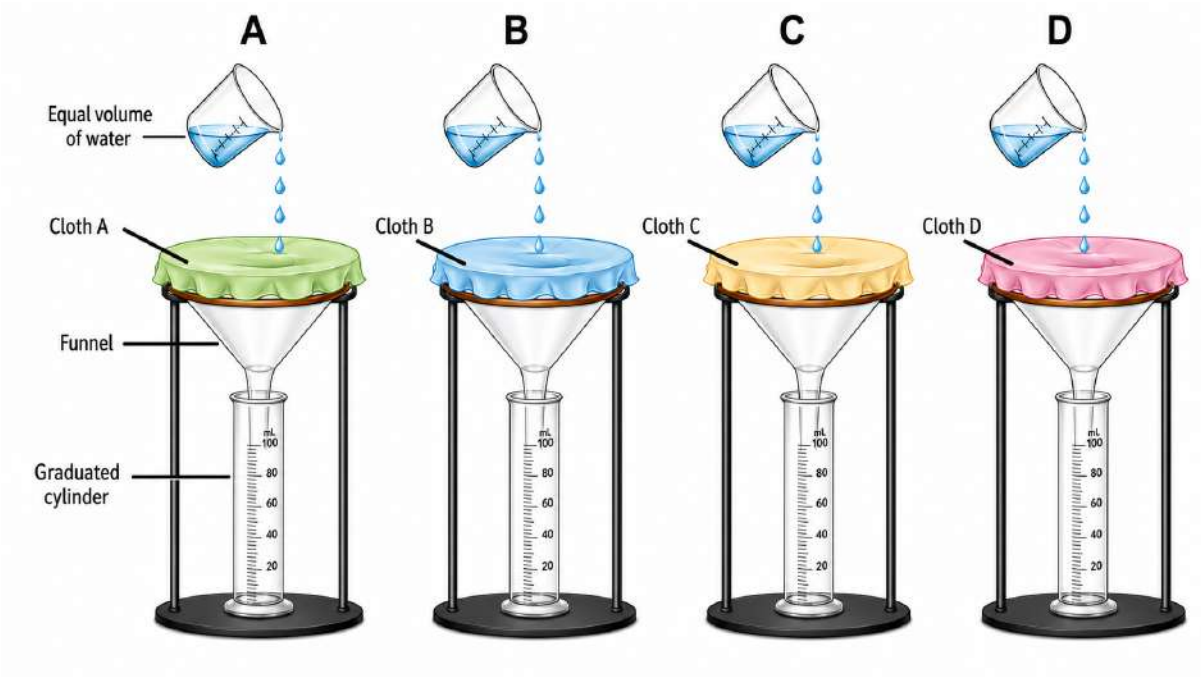
1. Rocks S and Q
2. Rocks P and Q
3. Rocks R and S
4. Rocks Q and P

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19. Tom carried out an experiment to find out which type of fabric was most suitable for making the canopy of an umbrella. He prepared four fabric samples, labelled A, B, C and D. All the samples were of the same size.



Tom stretched each fabric sample tightly over an identical funnel. He made sure that all the samples were stretched to the same tightness. He then placed a measuring cylinder below each funnel. Next, he poured 100 mL of water onto each fabric sample at the same rate. After 5 minutes, he measured the volume of water that had passed through each fabric and collected in the measuring cylinder.



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The results are shown in the table below.

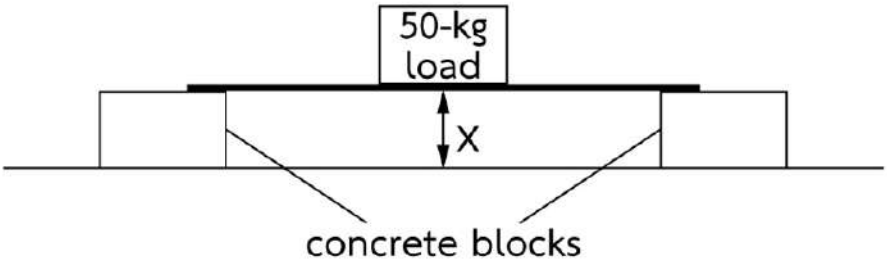
Fabric	Volume of water collected in the measuring cylinder (mL)
A	16
B	89
C	0
D	35

Based on its ability to prevent water from passing through, which fabric was most suitable for making the canopy of an umbrella? Explain your answer.
(3.5 marks)

1. Fabric A, because less water passed through it than Fabrics B and D.
2. Fabric B, because it allowed the greatest volume of water to pass through.
3. Fabric C, because no water passed through it during the 5-minute test.
4. Fabric D, because less water passed through it than Fabric B.

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20. Richard's family wanted to make a new dining table. The tabletop needed to support heavy dishes without bending over time.



Richard tested three wooden planks, A, B, and C of the same length, width, and thickness. He placed the ends of each plank on two concrete blocks that were the same distance apart. He then placed a 50 kg load at the center of each plank.

Richard measured the distance, (x), between the center of each plank and the ground at the same time every day for three days. A greater decrease in distance indicated that the plank bent more.

The results are shown in the table below.

Time of measurement	Plank A (cm)	Plank B (cm)	Plank C (cm)
Before the load was added	20	20	20
After 1 day	18	17	16
After 2 days	17	14	12
After 3 days	17	11	8

Which plank should Richard choose to make the tabletop, and why? (3.5 marks)

1. Plank A, because its distance from the ground decreased the least, showing that it bent the least.
2. Plank B, because its distance from the ground decreased steadily every day.
3. Plank C, because it was closest to the ground after three days.
4. Plank C, because a plank that bends more can support a heavier load.

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21. Steven wanted to find out which combination of moisture and temperature was most suitable for the survival of organism X. He divided a large container into four sections of different sizes. He then placed the same number of organisms X in each section under the conditions shown in the table below.

Section	Condition
A	moist and cool
B	dry and cool
C	moist and warm
D	Dry and warm

After four hours, Steven counted the number of organisms still alive in each section and recorded his observations.

His friends commented that the experiment was not a fair test as follows:

Nathan : Different numbers of organisms X should have been placed in each section.

Graham : Two environmental factors, moisture and temperature, were changed in the experiment.

Benny : The four sections of the container were not equal in size.

Darius : The observations should have been recorded immediately after setting up the experiment.

Which student(s) gave the best reason(s) why Steven's experiment was not a fair test? (4.5 marks)

1. Nathan
2. Benny
3. Graham and Benny
4. Darius and Nathan

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22. Vernetta wanted to find out which type of soil was most suitable for growing bougainvillea plants (paper flower). She selected three bougainvillea plants of the same size and planted one in each of three flowerpots, P, Q, and R. All three flowerpots were placed side by side in the same sunny location.

The conditions used in the experiment are shown in the table below.

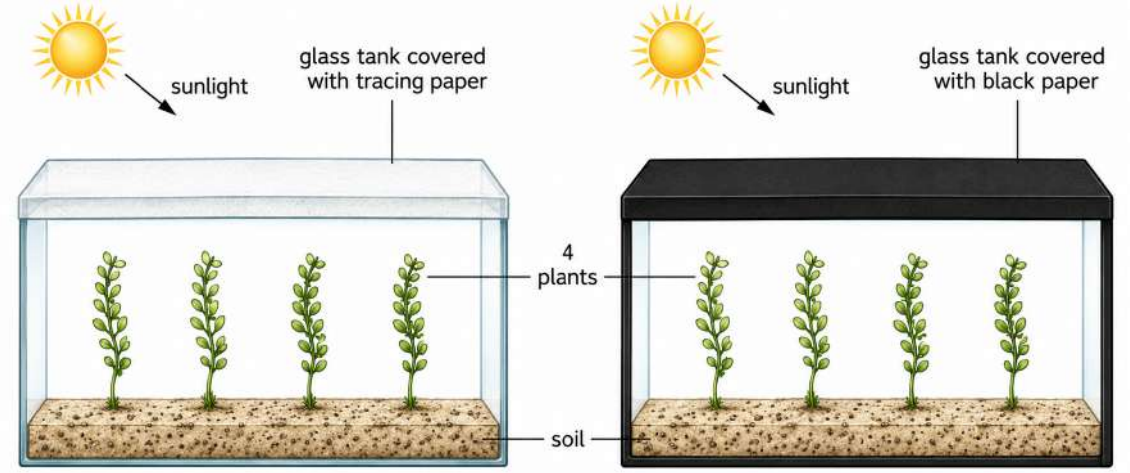
Variable / Flowerpot	P	Q	R
Material of flowerpot	plastic	plastic	plastic
Size of flowerpot (cm^3)	2000	1000	500
Type of soil	Sandy soil	Clay soil	Garden soil
Amount of water given every day (cm^3)	250	250	250

Why was Vernetta's experiment not a fair test? (4.5 marks)

1. The same type of soil should have been used in all three flowerpots.
2. The plants should have been given different amounts of water each day.
3. The plants should have been placed in different locations.
4. The flowerpots were of different sizes, so they contained different amounts of soil.

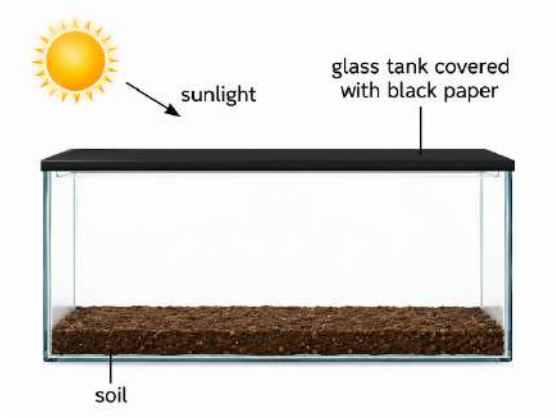
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23. Maria set up an experiment to investigate how the amount of sunlight affects the growth of a plant.

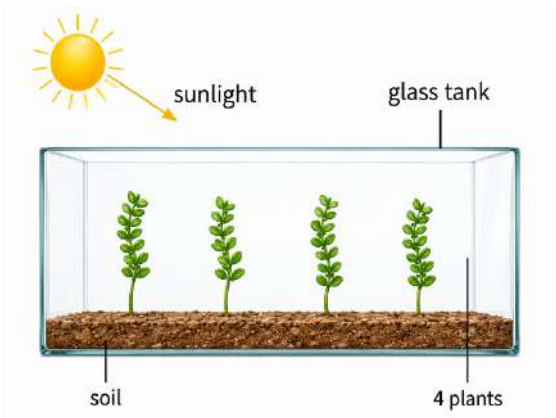


Which of the following set-ups should she use as the control set-up in her experiment? (4.5 marks)

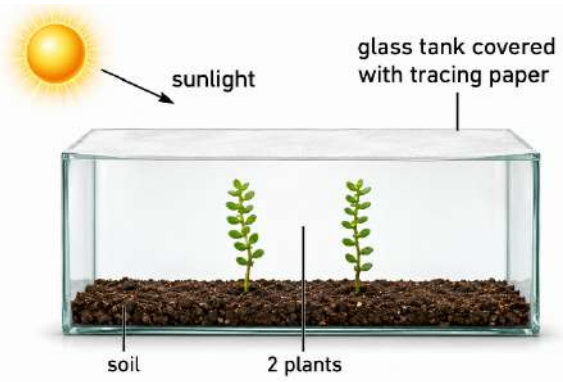
1.



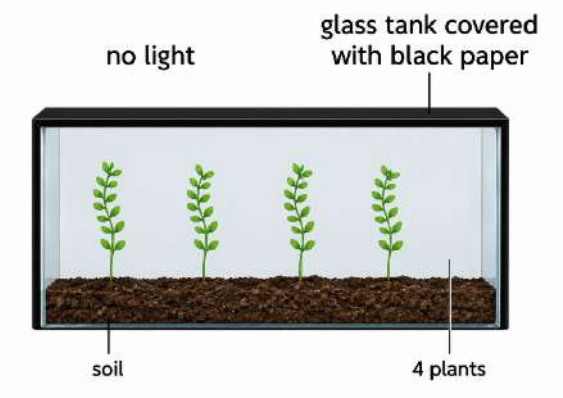
2.



3.



4.



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24. A student placed an alarm clock inside boxes lined with different materials. The student then listened to the sound from the same distance outside each box and recorded the results in the table below.

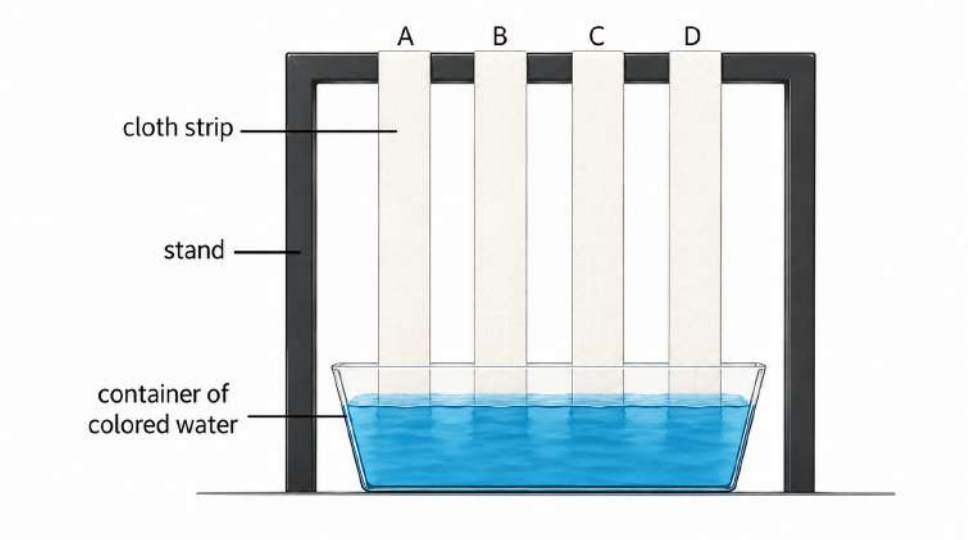
Box	Material lining the inside of the box	Sound level heard outside the box
P	No lining material	Very loud
Q	Aluminium sheet	Loud
R	Cardboard	Fairly loud
S	Thick fabric and foam	Quietest

Which box should be used to help reduce the noise from an alarm clock, and why? (4.5 marks)

1. Box P, because there is no material to block the sound.
2. Box Q, because the aluminium sheet reflects sound well.
3. Box R, because the cardboard makes the sound louder.
4. Box S, because the thick fabric and foam help reduce the sound passing out of the box.

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25. Alvin wanted to find out which fabric was most suitable for making a T-shirt for his brother to wear during an outdoor race on a hot, sunny day. He prepared four strips of different fabrics, A, B, C, and D. All the strips were of the same size. He hung them from a stand with one end of each strip dipped 1 cm into identical containers containing the same volume of coloured water.



After 10 minutes, Alvin measured the height reached by the coloured water in each strip. He then removed the strips from the water and recorded the time taken for each strip to dry. The results are shown in the table below.

Fabric	Height reached by coloured water after 10 minutes (cm)	Time taken to dry (minutes)
A	12	18
B	10	8
C	4	6
D	11	25

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A suitable fabric for a sports T-shirt should be able to move sweat away from the skin and dry within a short time. Which fabric should Alvin use to make the T-shirt, and why? (4.5 marks)

1. Fabric A, because the coloured water rose the highest, even though the fabric took a long time to dry.
2. Fabric B, because it allowed the coloured water to rise high and dried within a short time.
3. Fabric C, because it absorbed the least water and therefore would not absorb sweat.
4. Fabric D, because it remained wet for the longest time and would keep the body cool.

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26. At 4:30 p.m., Kaew saw the Moon in the sky even though the Sun had not yet set. She said, “The Moon should be visible only at night.”

Which statement is most appropriate conclusion based on this situation? (2.5 marks)

1. Kaew is correct because the object she saw could not have been the Moon.
2. The Moon produces more light than the Sun in the evening.
3. The Moon can be visible during both the day and the night at certain times.
4. Seeing the Moon means that the Earth has temporarily stopped rotating.

27. The properties of different types of materials were tested, and the results are shown in the table below.

Property	Material P	Material Q	Material R	Material S
Strong	✓	✓	✗	✗
Flexible	✗	✗	✓	✗
Lightweight	✓	✗	✓	✗
Waterproof	✓	✗	✓	✓

David needs to choose a suitable material to make a container that can hold 10L of water. Which material should he choose? (3.5 marks)

1. Material P
2. Material Q
3. Material R
4. Material S

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28. Two students made a paper cup telephone using two paper cups connected by a string. They tested the telephone under different conditions and recorded their observations in the table below.



a paper cup telephone

Test	Condition of the string	Observation
1	The string was taut and did not touch any obstacle.	The sound was heard clearly.
2	The string was loose.	The sound was soft and unclear.
3	The string was held in the middle with a finger.	The sound was unclear.
4	The string was broken.	No sound was heard through the other cup.

Which statement best explains the results of the experiment? (3.5 marks)

1. Holding the string with a finger increases its vibrations and makes the sound louder.
2. Sound vibrations travel well through the string when it is broken.
3. Sound vibrations travel well through the string when it is taut and can vibrate freely.
4. The tension of the string has no effect on the transmission of sound.

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29. Mr. Peterson classified two types of soil according to their characteristics.

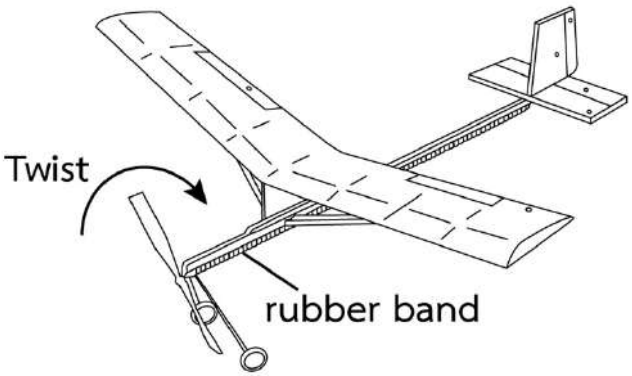
Characteristic	Soil A	Soil B
Air flow	poor	good
moisture content	high	low
air spaces	very small	large

What can soil A and soil B be? (3.5 marks)

Choice	Soil A	Soil B
1.	Clayey soil	loamy soil
2.	Clayey soil	Sandy soil
3.	Sandy soil	Clayey soil
4.	Garden soil	Sandy soil

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30. The more times a rubber band is twisted, the more energy it stores."
Samuel wanted to find out whether this statement was true, so he conducted an experiment using his toy plane.



The results are shown in the table below.

Number of times rubber band is twisted	10	15	20
Distance travelled by plane (m)	1.0	1.5	2.0

Which measurement did Samuel use as evidence of the amount of energy stored in the rubber band? (4.5 marks)

1. He counted the number of times the rubber band was twisted.
2. He counted the number of rubber bands used in the plane.
3. He measured the length of the rubber band after it was twisted.
4. He measured the distance travelled by the plane.

---------- End of Questions ----------

Please check your answers before submitting the answer sheet.

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Answers Keys : Science Primary - Grade 2

No.	Answers	No.	Answers
1.	2	21.	2
2.	4	22.	4
3.	3	23.	2
4.	4	24.	4
5.	2	25.	2
6.	3	26.	3
7.	3	27.	1
8.	4	28.	3
9.	1	29.	2
10.	2	30.	4
11.	3		
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13.	4		
14.	4		
15.	2		
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17.	4		
18.	2		
19.	3		
20.	1		

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