



Science

Stage 5

Paper 2

2024

Cambridge Primary Progression Test

Name

Class

Date

35 minutes

No additional materials are needed.

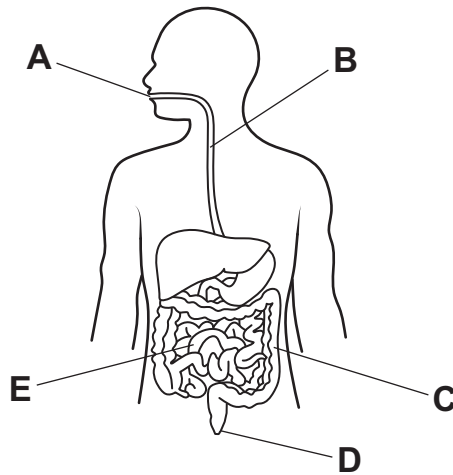
INSTRUCTIONS

- Answer **all** questions.
- Write your answer to each question in the space provided.
- You should show all your working on the question paper.

INFORMATION

- The total mark for this paper is 40.
- The number of marks for each question or part question is shown in brackets [].

1 Look at the diagram showing the human digestive system.



(a) Food enters through the mouth and waste leaves through the anus.

Complete the table to show the order of movement through the digestive system.

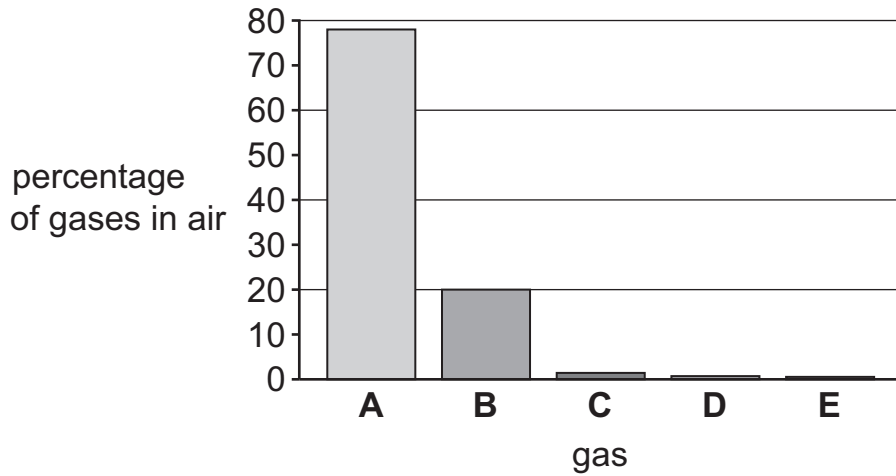
letter on diagram	name
A	mouth
B
.....	small intestine
.....
D	anus

[2]

(b) Write down the name of the organ that produces acid and digests food.

..... [1]

2 Hassan draws a bar chart to show the percentage of gases in the air.



(a) Complete the sentences.

The gas with the highest percentage in the air is

This gas has a percentage of 78%.

The gas with the next highest percentage in the air is **B**.

This gas has a percentage of %.

The difference in percentage between these two gases is %.

[2]

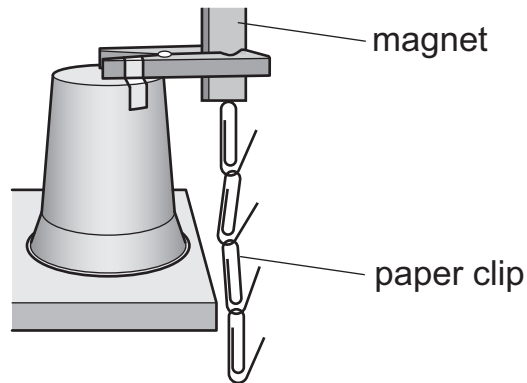
(b) Nitrogen, oxygen, carbon dioxide and water vapour are all gases at room temperature.

Write down the name of **one other** gas at room temperature.

..... [1]

3 Gabriella investigates the strength of magnets.

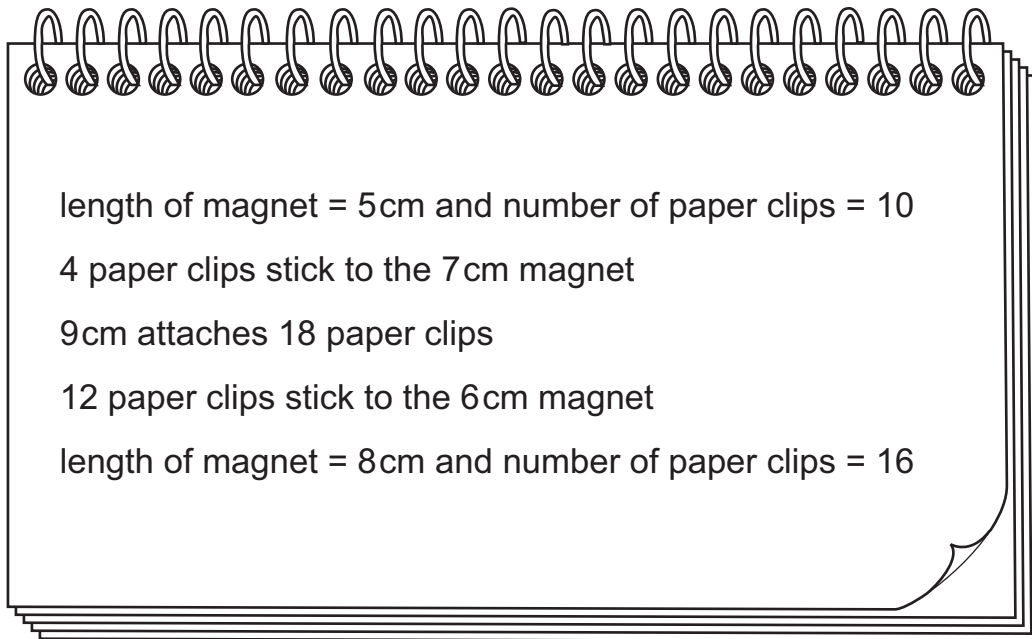
Look at her equipment.



Gabriella counts the number of paper clips attracted by the magnet.

She repeats the experiment with different length magnets.

Look at her results.



(a) Complete the table using the results.

length of magnet in	number of paper clips
5	10
6	12
.....
8
9

[1]

(b) Describe the pattern in the results **and** identify the anomalous result.

pattern is

.....

anomalous result is paper clips

[2]

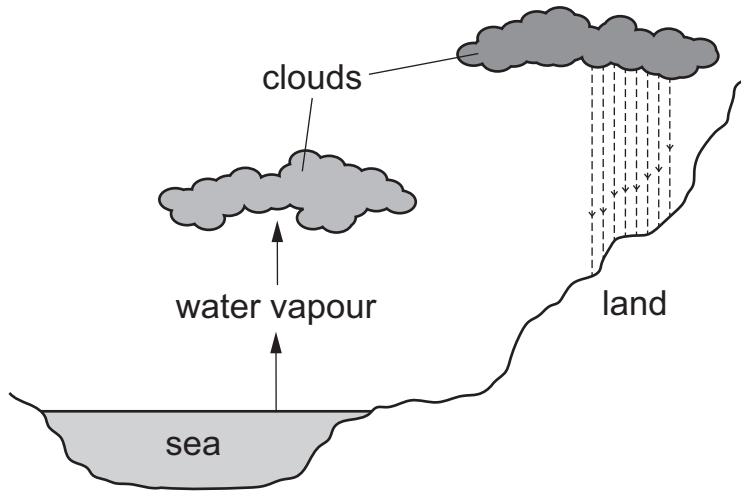
(c) Complete the sentence.

The paper clip is attracted to the magnet because the paper clip is a

..... material.

[1]

4 The picture shows a simple diagram of the water cycle.



Complete the sentences.

Choose words from the list.

evaporation

condensation

precipitation

The process that happens from sea to water vapour is

The process that happens from clouds to land is

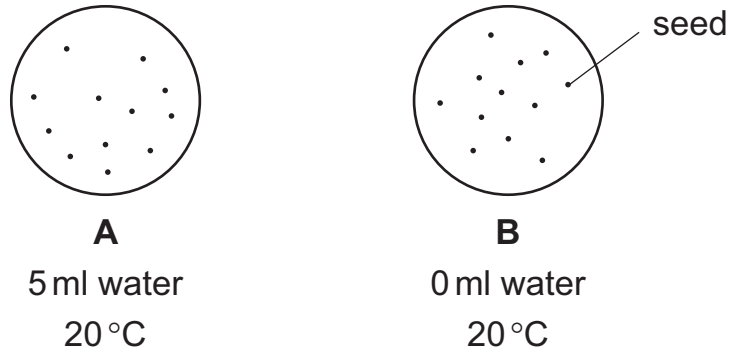
The process that changes water vapour into small droplets of water in clouds is

.....

[2]

5 Chen investigates the conditions needed for seed germination.

He puts seeds in dish **A** and dish **B**.



(a) Chen compares dish **A** and dish **B**.

Complete the sentences.

There are 12 seeds in each dish to make the test fair.

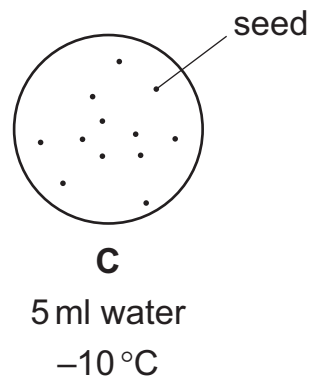
The number of seeds is a control variable.

One other control variable is

The independent variable is

[2]

(b) Chen puts 12 more seeds in dish **C**.



Chen compares dish **A** and dish **C**.

All the seeds germinate in dish **A** but **no** seeds germinate in dish **C**.

Complete the conclusion.

No seeds germinate in dish **C** because

..... [1]

6 Safia completes a table to show the properties of some substances.

substance	white or green	soluble or insoluble in oil	soluble or insoluble in water
A	white	soluble	insoluble
B	green	soluble	insoluble
C	white	insoluble	soluble
D	green	insoluble	soluble

(a) Which green substance dissolves in oil?

Circle the correct answer.

A

B

C

D

[1]

(b) A solution contains substance **D** in water.

Complete the sentence.

In this solution the solvent is water.

Substance **D** has in the solvent.

[1]

(c) A beaker contains substance **C** mixed with water.

Safia wants to separate pure **C** from the water.

Which method does she use?

Tick (✓) the correct answer.

condensation

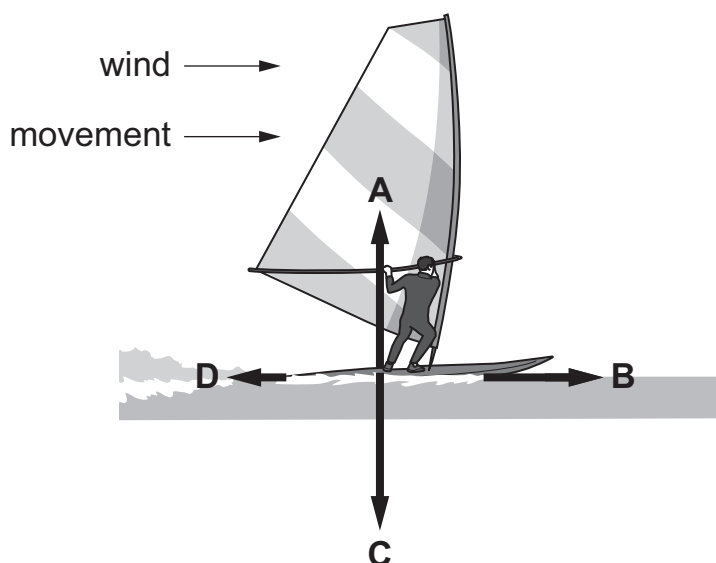
evaporation

filtration

freezing

[1]

7 Look at the diagram of Mike windsurfing on a surfboard with a sail.



The arrows **A**, **B**, **C** and **D** are forces on the surfboard with a sail.

(a) Draw a straight line from the **letter** to the **name of the force**.

letter

name of force

A

applied force from wind

B

friction from the water

C

gravity

D

upthrust from water

[2]

(b) Applied force, friction, gravity and upthrust are all types of forces.

Write down the name of **one other** type of force.

..... [1]

8 Angelique uses the internet to find out facts about Earth's water.

97% of water is found in the oceans and is **not** pure.

2.5% of water is pure but is **not** available to drink.

0.5% of water is pure and available to drink.

(a) Complete the sentences to explain why most water is **not** pure enough to drink.

Most water is found in the

This water has substances in the water.

These substances include

[2]

(b) Pure water that is **not** available to drink is trapped underground or is ice.

Suggest where pure drinking water is found.

.....
 [1]

9 Animals need a balanced diet.

What is a balanced diet?

Circle the correct answer.

a diet just containing fat

a diet with all the nutrients in the correct amounts

a diet with lots of fruit and vegetables

a diet with vitamins, carbohydrates and proteins

[1]

10 A teacher fills a glass bottle with water and adds a lid.

She puts the glass bottle in a plastic bag.

Look at the picture of the glass bottle full of water.



The teacher puts the glass bottle full of water into the freezer for two days.

(a) An empty glass bottle does **not** break in the freezer.

The glass bottle full of water breaks in the freezer.

Complete the sentences to explain why the glass bottle full of water breaks.

The water in the glass bottle cools in the freezer and becomes

This makes the glass bottle break because

.....
.....

[2]

(b) Describe how the plastic bag reduces the risk of injury to the teacher in this experiment.

.....
.....

[1]

11 Aiko makes different sounds.

Vibrations allow her to hear the sounds.



(a) What is vibrating to allow Aiko to hear the sound?

..... [1]

(b) Describe how Aiko increases the **volume** of the sound.

.....
..... [1]

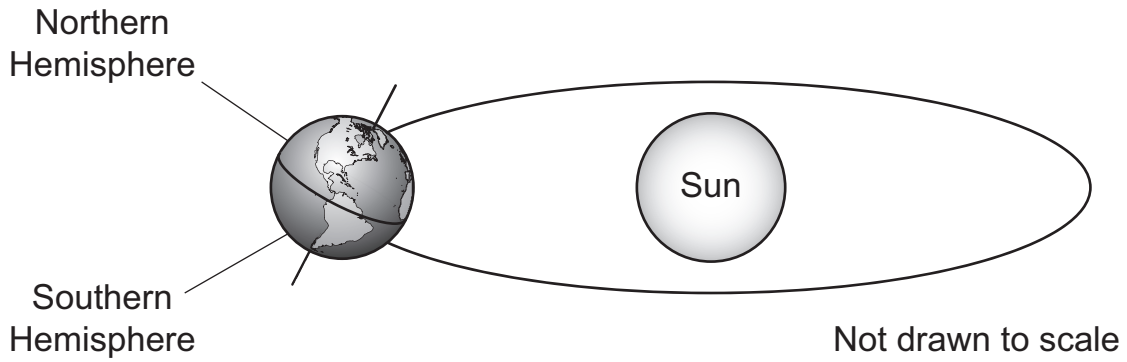
(c) Describe **two different** ways Aiko increases the **pitch** of the sound.

1

2

[2]

12 Rajiv draws a diagram of the Earth and Sun.



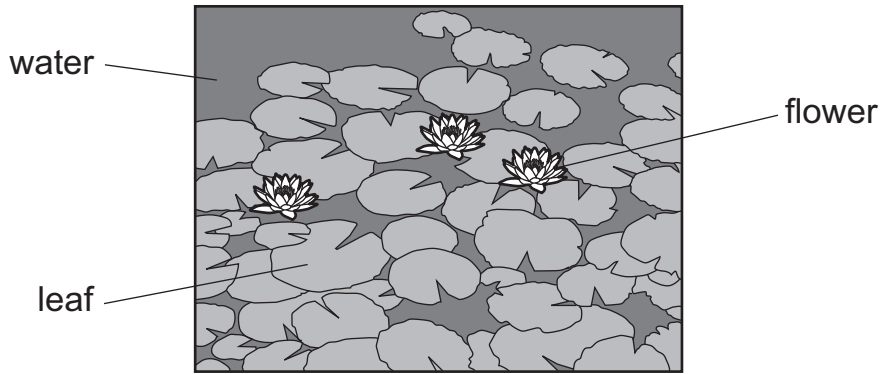
(a) Describe the path of the Earth around the Sun.

.....
..... [1]

(b) Explain why it is summer in the Northern Hemisphere in this diagram.

.....
..... [1]

13 Water lilies are plants that are adapted to live in water.



(a) Complete the sentences to describe how the leaves of water lilies are adapted.

The leaves have air bubbles in them so they

The leaves are large to get

[2]

(b) The flowers of water lilies attract pollinators.

Describe **two** ways the flowers are adapted to attract pollinators.

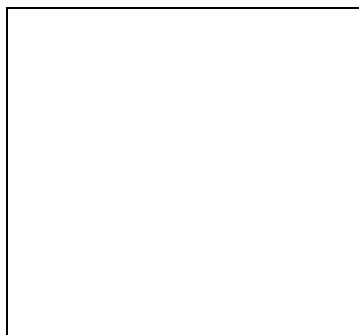
1

2

[2]

14 The particle model describes the arrangement and movement of particles.

(a) Draw the **arrangement** of the particles in a **gas** in the box.



[1]

(b) Describe the **movement** of particles in a **gas**.

.....
.....

[1]

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