



Cambridge Primary Sample Test

For use with curriculum published in September 2020

Science Paper 2

Stage 3

30 minutes

Name

No additional materials are needed.

INSTRUCTIONS

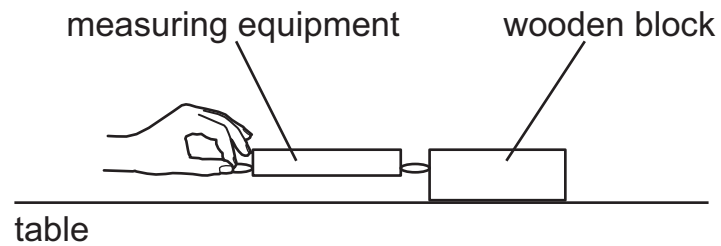
- Answer **all** questions.
- Write your answer to each question in the space provided.
- You should show all your working on the question paper.

INFORMATION

- The total mark for this paper is 30.
- The number of marks for each question or part question is shown in brackets [].

1 Mike investigates forces.

Here is his equipment.



(a) What measuring equipment measures force?

Circle the correct answer.

balance

forcemeter

magnet

ruler

[1]

(b) A force pulls the wooden block towards the centre of the Earth.

What is the name of this force?

Circle the correct answer.

friction

gravity

magnetism

mass

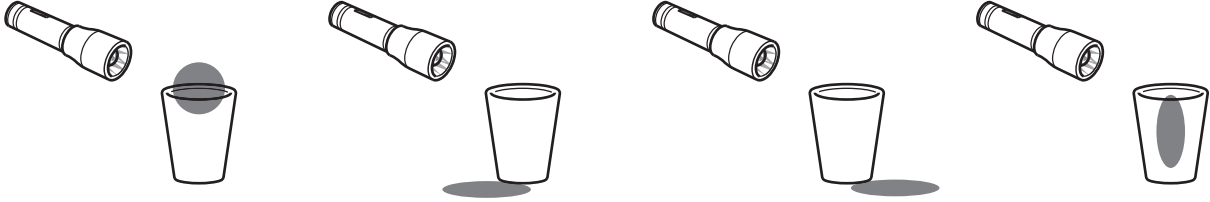
[1]

2 Pierre and Ahmed investigate shadows.

They use a light source to make a shadow of a cup.

(a) Which is the correct shadow?

Circle the correct answer.



[1]

(b) Draw the shadow when the light source is directly above the cup.

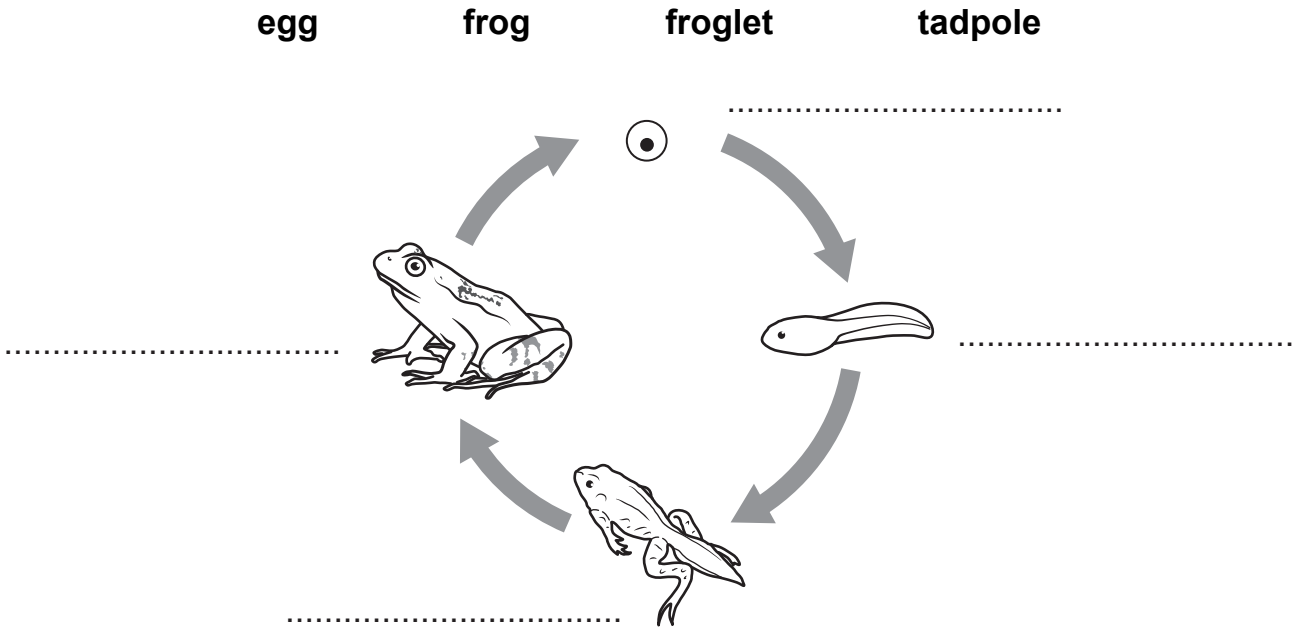


[1]

3 Frogs have a life cycle.

(a) Label the life cycle.

Choose from the list.



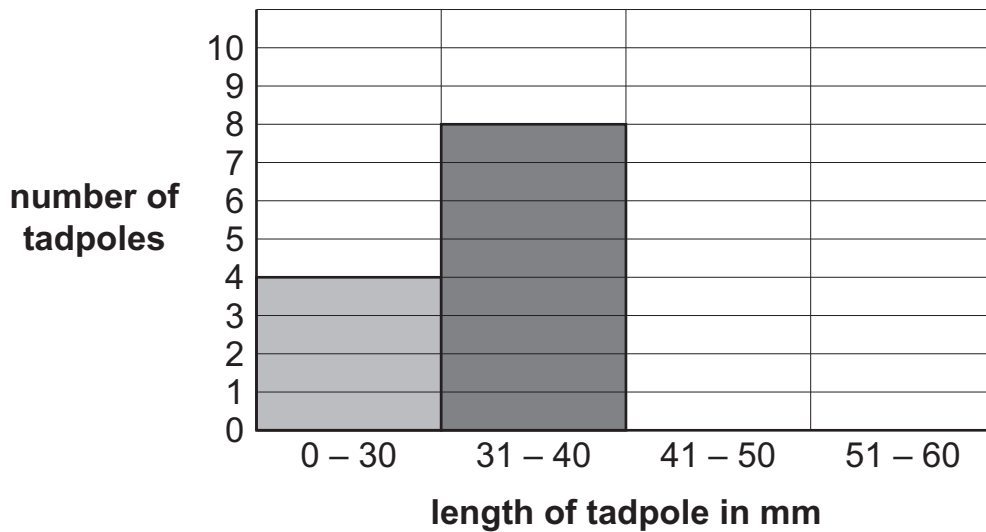
[1]

(b) Priya measures the lengths of tadpoles.

She writes her results in a table.

length of tadpole in mm	number of tadpoles
0 – 30	4
31 – 40	8
41 – 50	10
51 – 60	7

Complete the bar chart.






[1]

(c) Complete the conclusion using your bar chart.

Most of the tadpoles have a length of mm to mm.

[1]

4 Here are the properties of some materials.

material	solid or liquid?	shiny or dull?	large or small size?
A	solid	shiny	
B	solid	dull	
C	solid	shiny	

(a) A mixture contains **A** and **B**.

Describe how to separate **A** from **B**.

.....
 [1]

(b) A mixture contains **A** and **C**.

Describe how to separate **A** from **C**.

.....
 [1]

5 Useful materials are found in rocks.

Draw a line to match each **material** to its correct **use**.

material

use

natural gas

to build houses and roads

metal

for cooking and heating

oil

to make car bodies and
jewellery

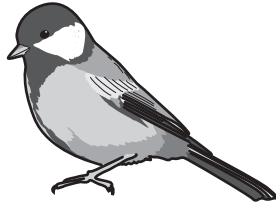
stone

to make gasoline,
medicines and plastic

[2]

6 There are different types of animals.

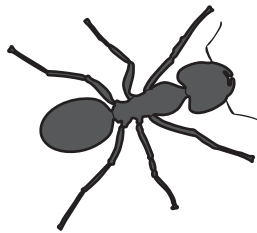
(a) Anastasia has a picture of an animal.



Complete the sentence.

This animal is a because it has
 [1]

(b) Youssef has a picture of an animal.



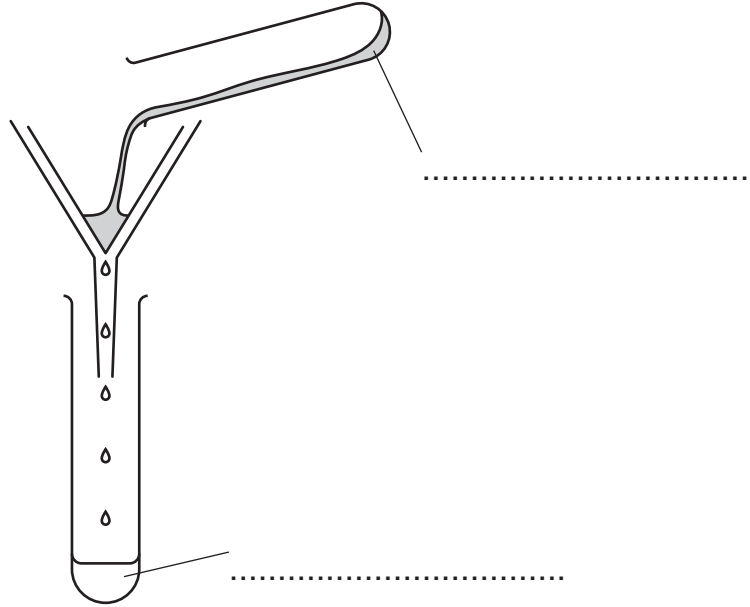
Complete the sentence.

This animal is a type of because it has
 [1]

7 Chen is separating a mixture of sand and water.

The diagram shows the equipment he uses.

(a) Label the diagram.



[2]

(b) Complete the sentences to describe how the mixture is separated.

Sand does **not** in the water.

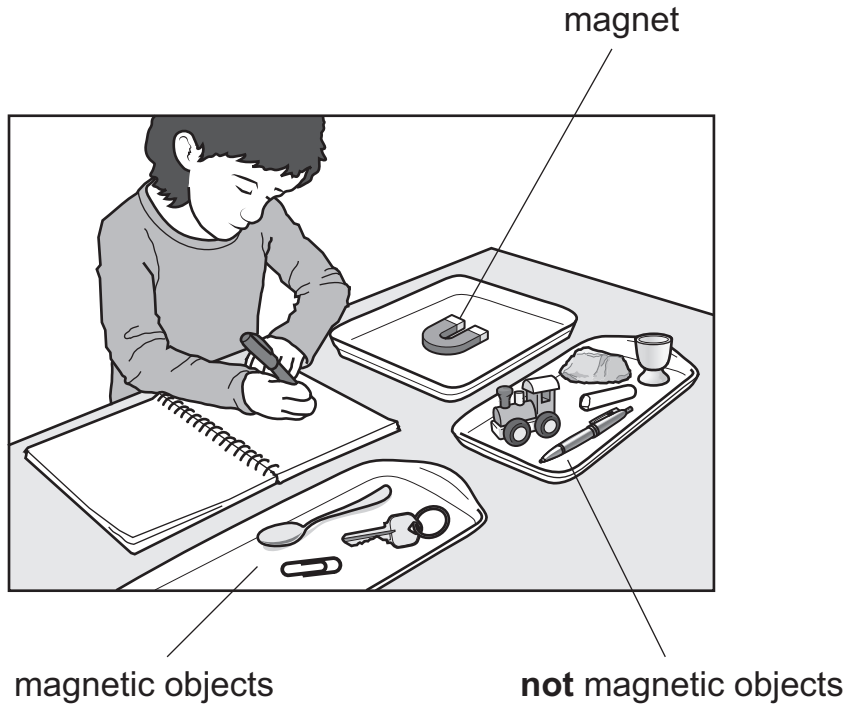
Wet sand contains a small amount of water.

Wet sand can be dried by

[2]

8 Gabriella sorts objects into two groups:

- magnetic objects
- **not** magnetic objects.



(a) Describe how she uses the magnet to find the magnetic objects.

.....

.....

..... [2]

(b) Gabriella writes the results in her notebook.

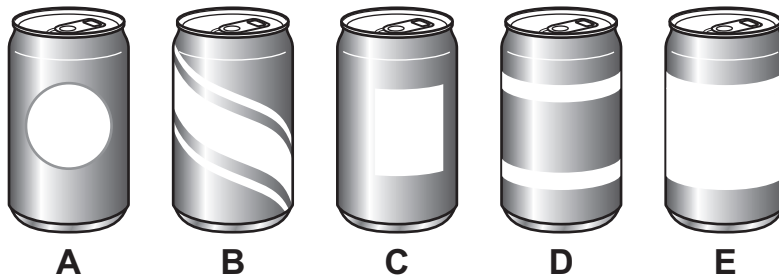
spoon = yes	plastic toy ✗
key ✓	chalk is not magnetic
egg cup = not	pen = not
paper clip is magnetic	rock = not

Write her results in the table.

magnetic objects	<u>not</u> magnetic objects

[1]

9 Angelique and Mia investigate the amount of sugar dissolved in five drinks.



Mia writes down the amount of sugar dissolved in four of the drinks.

drink	sugar dissolved in g
A	30
B	12
C	42
D	8
E

Angelique tastes the drinks.

She says,

‘Drink E is sweeter than drink B. It is not as sweet as drink A.’

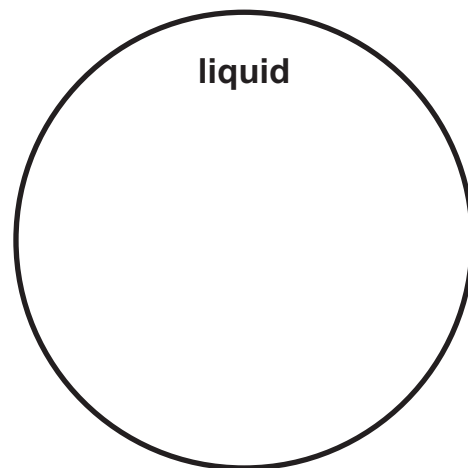
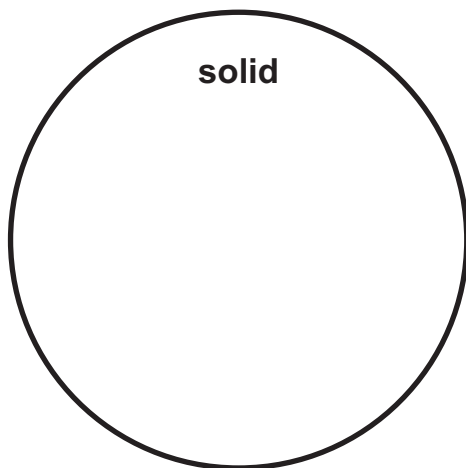
Complete the table to predict the amount of sugar in drink E.

[1]

10 The table shows the properties of some materials.

material	solid or liquid at room temperature	colour
iron	solid	grey
glass	solid	clear
coffee	liquid	brown
steel	solid	silver
lemonade	liquid	yellow

(a) Put the materials into **two** groups.



[1]

(b) Explain why colour is **not** used to make two groups.

.....

..... [1]

11 Plants need the correct conditions to be healthy.

(a) Oliver looks at a healthy plant.



Describe how Oliver knows this plant is healthy.

.....

..... [1]

(b) Oliver investigates the conditions plants need to be healthy.

Complete the table by using the words

healthy

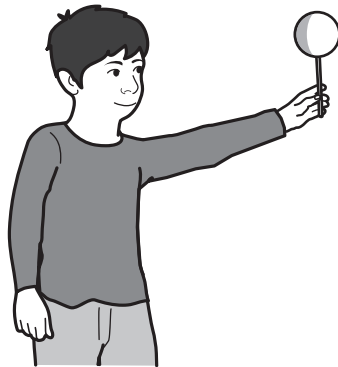
not healthy

Does the plant have water?	Does the plant have light?	temperature	plant at start	plant after 10 days
yes	yes	room temperature	healthy	healthy
yes	no	room temperature	healthy
no	yes	room temperature	healthy
yes	yes	100 °C	healthy
no	no	100 °C	healthy

[2]

12 Mike is making a model of the Earth and the Moon.

Mike is
the Earth the Moon



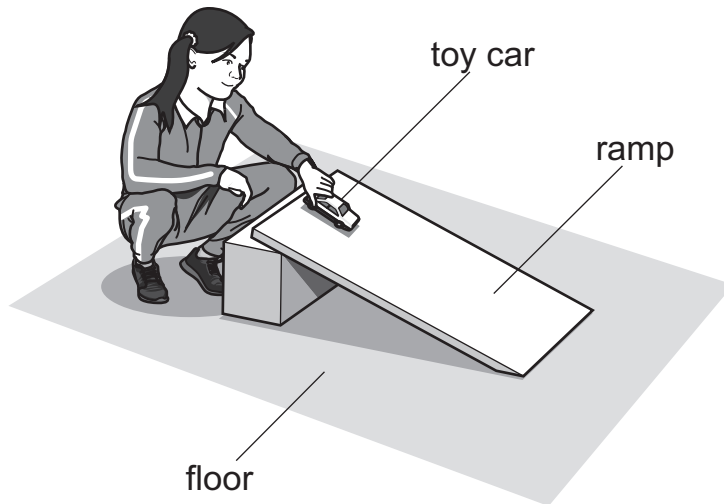
(a) Describe what Mike does to change the position of the Moon.

..... [1]

(b) Describe how the **appearance** of the Moon changes each month.

..... [1]

13 Blessy puts a toy car on a ramp.



She lets go of the toy car.

The toy car moves down the ramp and travels over the floor.

(a) Blessy wants to investigate friction.

What question does she ask?

Circle the correct answer.

What is the temperature of the floor?

What colour is the car?

What is the size of the floor?

What distance does the car travel?

[1]

(b) Blessy makes some measurements.

Why does she always use standard units when she makes the measurements?

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

Copyright © UCLES, 2020
Cambridge Assessment International Education is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which itself is a department of the University of Cambridge.

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.