

Candidate Name _____

Centre Number _____

Candidate Number _____

CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge Primary Checkpoint

0846/01
SCIENCE
Paper 1

April 2018
TIME: 45 minutes

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

Candidates answer on the Question Paper.
Additional Materials:

Pen
Pencil
Ruler
Calculator
Insert for Question 5

READ INSTRUCTIONS OVERLEAF

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of the front page.

Write in dark blue or black pen.

DO NOT WRITE IN ANY BARCODES.

Answer ALL questions.

The number of marks is given in brackets [] at the end of each question or part question.

You should show all your working in the booklet.

The total number of marks for this paper is 50.

BLANK PAGE

1 Some solids dissolve in water and some do NOT.

Complete the table.

There are four spaces to fill.

One has been done for you.

SOLID ADDED TO WATER	DOES THE SOLID DISSOLVE?
iron	no
salt	_____
sand	_____
silver	_____
sugar	_____

[2]

2 Mass, force and weight can be measured.

Complete the sentences.

Choose from the following words.

Each word can be used once, more than once, or not at all.

KILOGRAMS METRES NEWTONS SECONDS

Mass is measured in _____ .

Force is measured in _____ .

Weight is measured in _____ .

[2]

3 Complete the sentences about food chains.

Choose from the following words.

Each word can be used once, more than once, or not at all.

CONSUMER

HABITAT

PREDATOR

PREY

PRODUCER

Food chains start with a _____ .

An animal that eats plants is called a

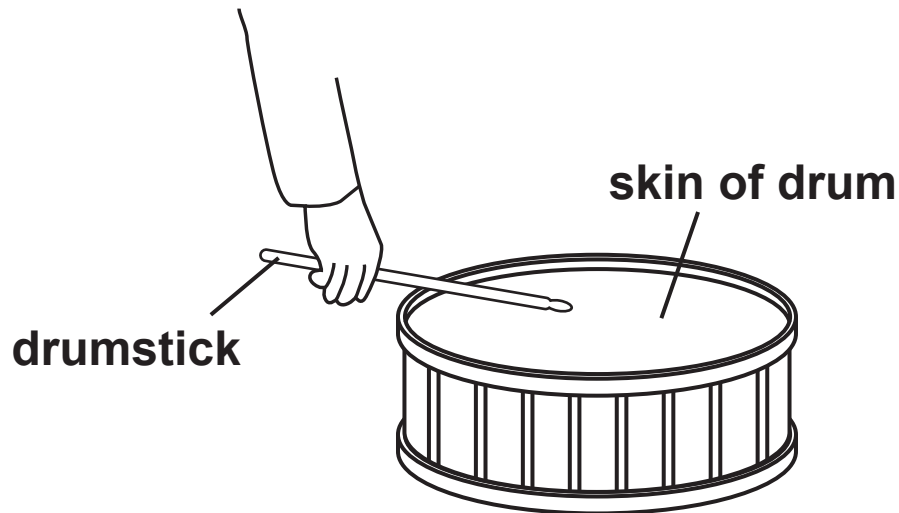
_____ .

An animal that eats another animal is called a

_____ .

[3]

4 Drums are used to make sound.



Complete the sentences.

(a) The drum makes a higher pitch sound when the

skin is _____
_____. [1]

(b) The drum makes a louder sound when

_____. [1]

5 Look at the properties of some materials on the Insert.

(a) A mixture contains A and B.

Which method would you use to separate this mixture?

Tick (✓) the correct box.

condensation

☐

evaporation

☐

filtration

☐

magnetic attraction

☐

[1]

(b) A solution contains D in WATER.

Which method would you use to separate pure D from this solution?

Tick (✓) the correct box.

condensation

☐

evaporation

☐

filtration

☐

magnetic attraction

☐

[1]

(c) A mixture contains C and WATER.

Which method would you use to separate this mixture to get C and water?

Tick (✓) the correct box.

condensation

☐

evaporation

☐

filtration

☐

magnetic attraction

☐

[1]

(d) A mixture contains C, D and WATER.

Which two methods would you use to separate the mixture to get both pure C and pure D?

Tick (✓) the TWO correct boxes.

condensation

☐

evaporation

☐

filtration

☐

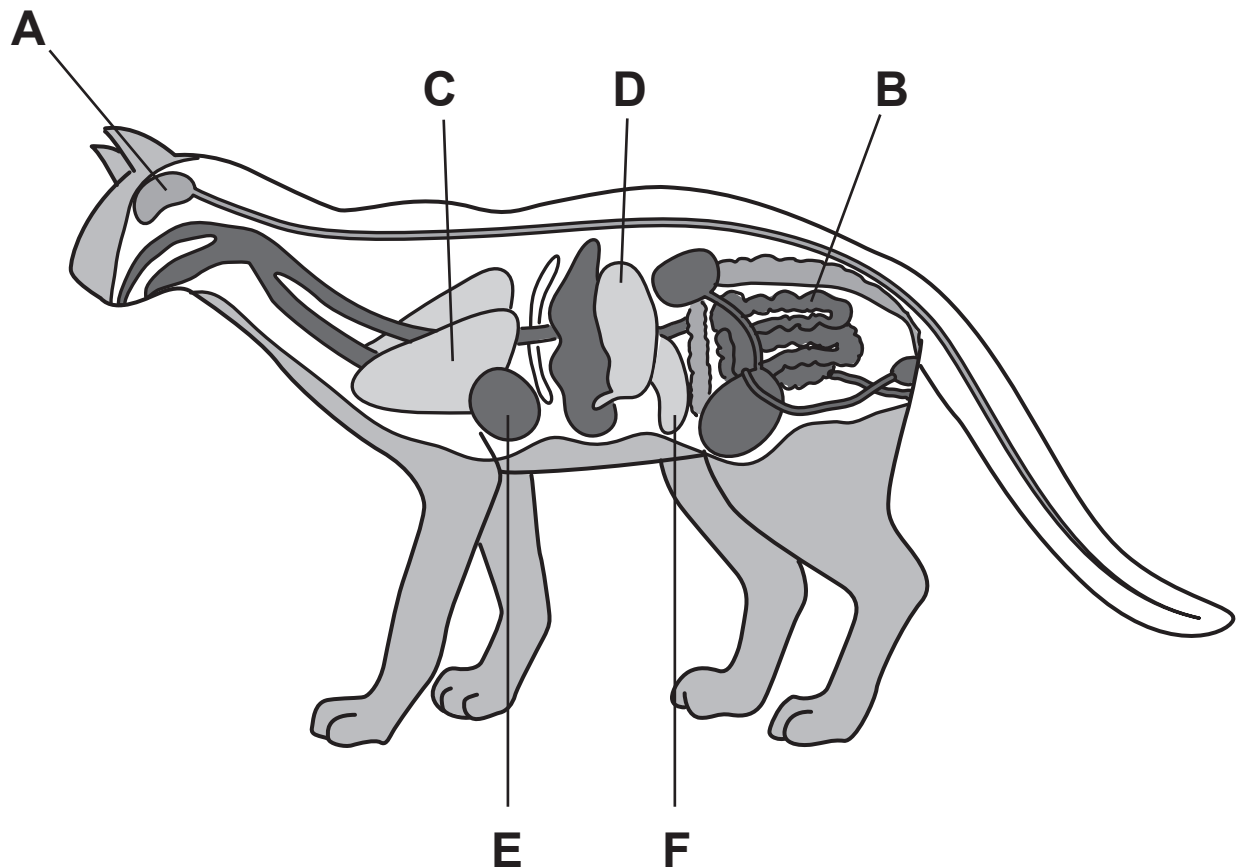
magnetic attraction

☐

[1]

6 Humans have organs inside their bodies.

Cats have similar organs inside their bodies.



(a) Which letter shows the organ the cat uses to breathe?

Circle the correct answer.

A B C D E F

[1]

(b) Which letter shows the organ that pumps blood around the cat's body?

Circle the correct answer.

A B C D E F

[1]

(c) Which letter shows an organ that digests the food the cat eats?

Circle the correct answer.

A B C D E F

[1]

7 The picture shows an electrical cable.

(a) Label the picture.

Choose from the following words.

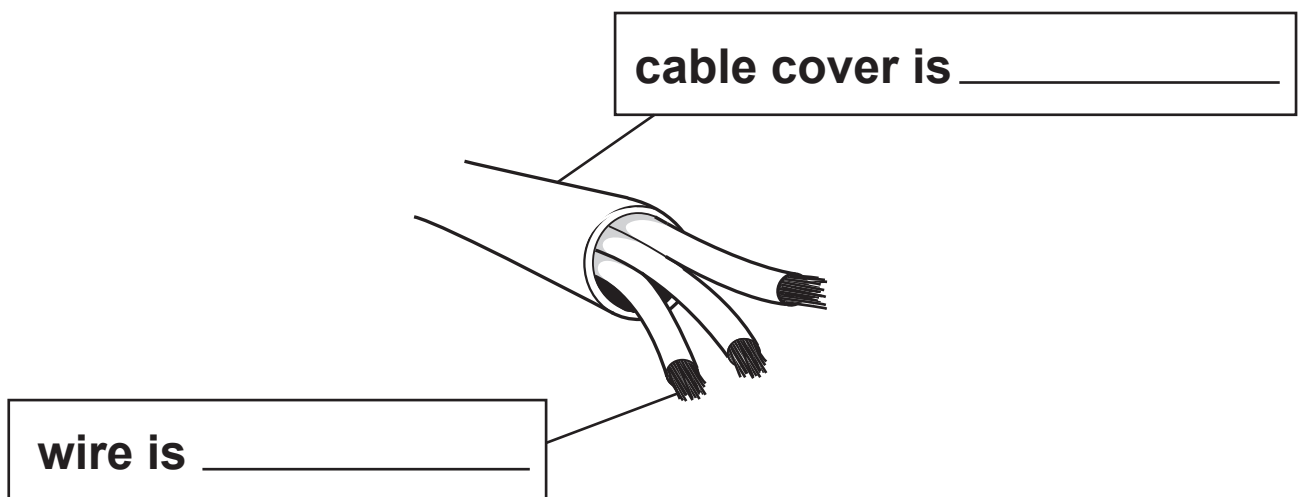
GLASS

METAL

PAPER

PLASTIC

WOOD

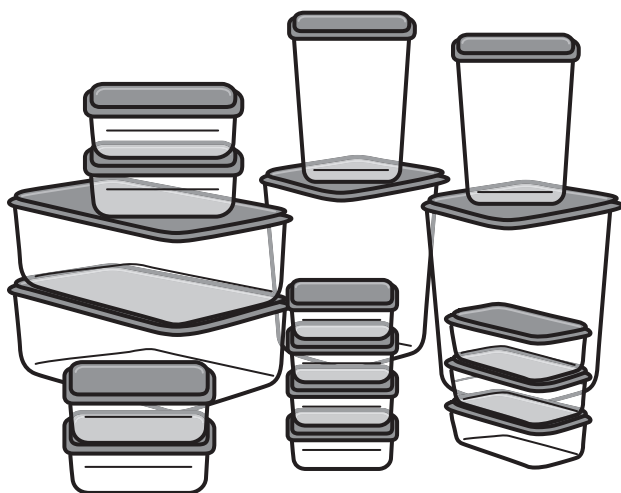


[1]

(b) Complete the sentence.

The cable cover is a good _____ [1]

8 Plastic is often used to make containers for food.



Which properties must this plastic have to make containers for food?

Tick (✓) the THREE correct properties of the plastic.

conducts electricity

☐

conducts heat

☐

insoluble in water

☐

magnetic

☐

melting point above 100 °C

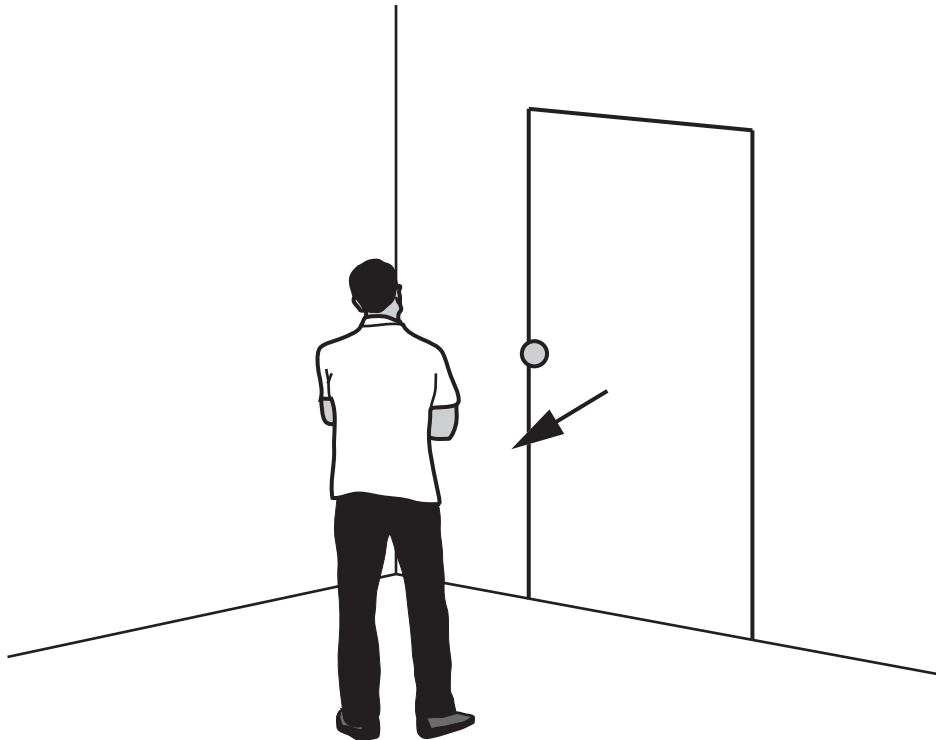
☐

non-poisonous

☐

[2]

9 Youssef is inside a room.



(a) The door opens into the room.

Complete the sentences.

Choose from the following words.

MAGNETIC

MOVING

PULLING

PUSHING

TWISTING

When he opens the door he uses a

_____ **force.**

When he closes the door he uses a

_____ **force.**

[1]

(b) Youssef thinks that the door does NOT open because there is too much friction.

What does he do to reduce the friction?

Circle the correct answer.

ADD CARPET UNDER THE DOOR

ADD OIL TO THE DOOR

MAKE THE DOOR BIGGER

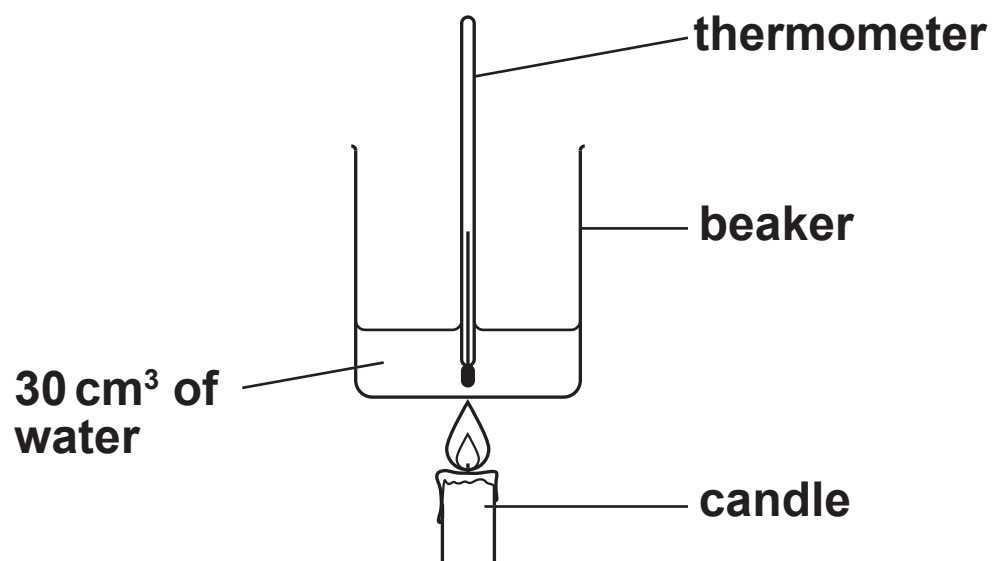
MAKE THE DOOR HEAVIER

PUT A MAT IN FRONT OF THE DOOR

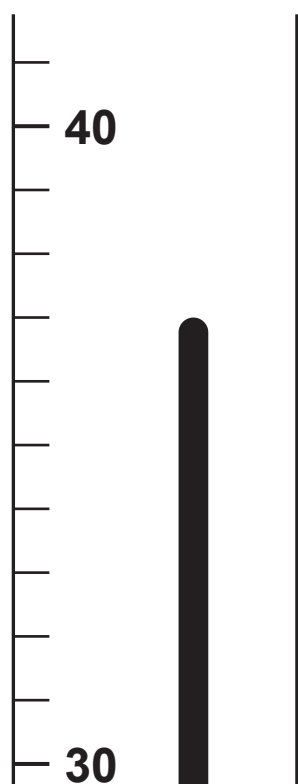
[1]

10 Pierre uses a candle to heat a beaker of water.

Here is a diagram of his experiment.



(a) The diagram shows the thermometer after 10 minutes.



What is the temperature of the water after 10 minutes?

_____ °C [1]

(b) At the start the temperature of the water was 20 °C.

What is the temperature increase?

_____ °C [1]

(c) Pierre continues to heat the beaker.

What happens to the water when its temperature reaches 100 °C?

_____ [1]

(d) Pierre sees some liquid wax at the top of the candle.

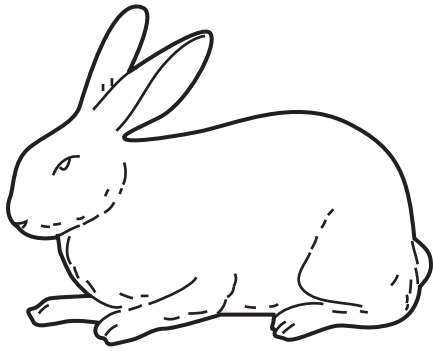
What process has happened to the solid wax?

_____ [1]

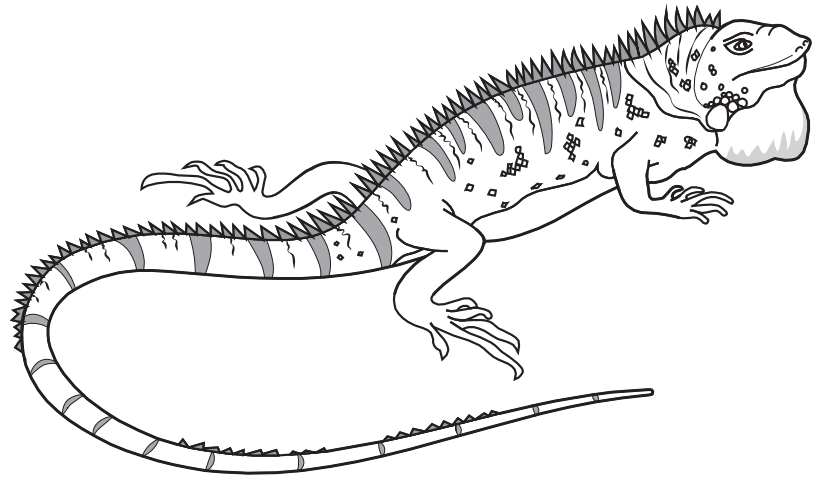
11 Youssef is using keys.

(a) He has four pictures of different animals.

A



B



C

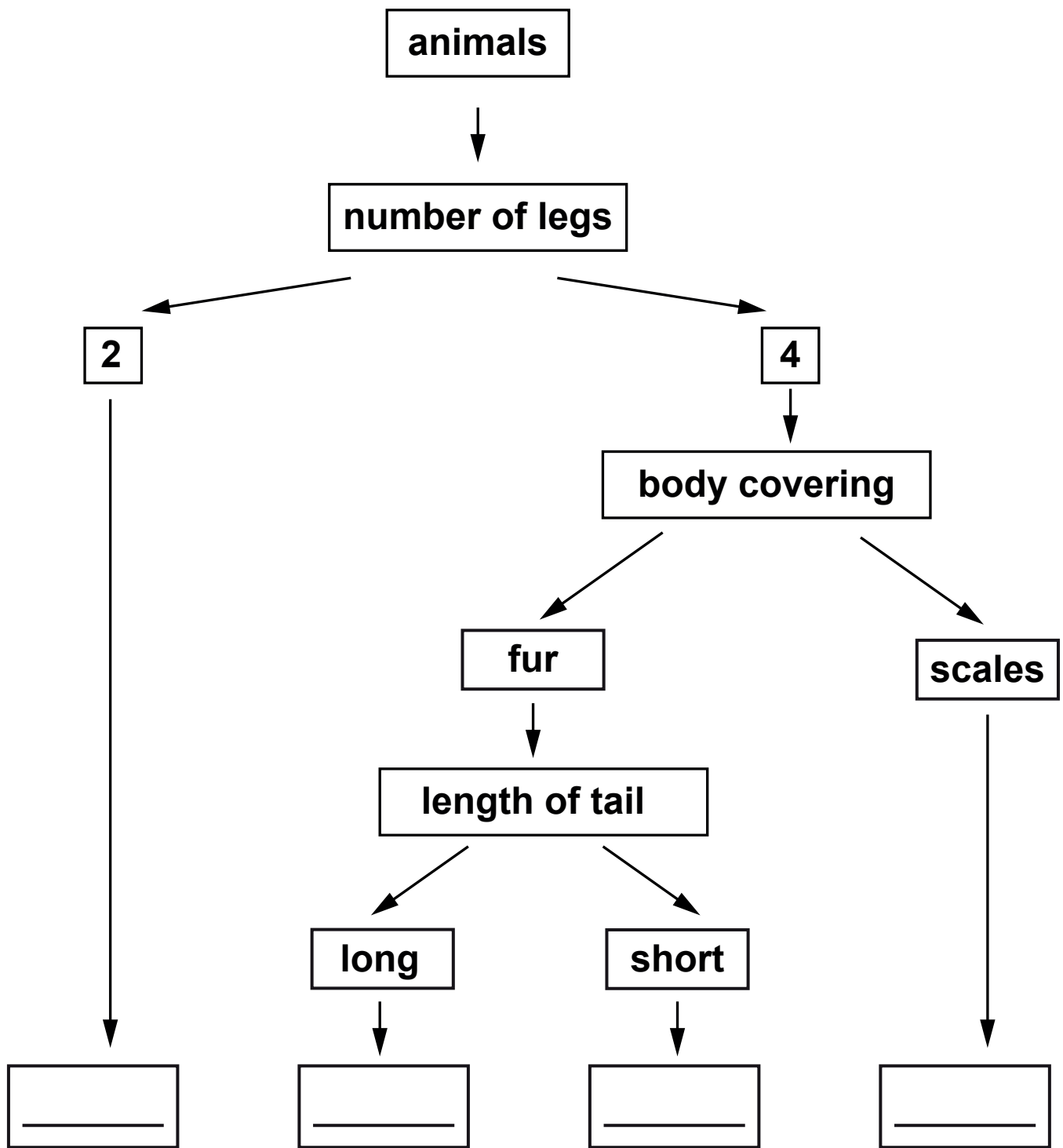


D



Complete Youssef's key.

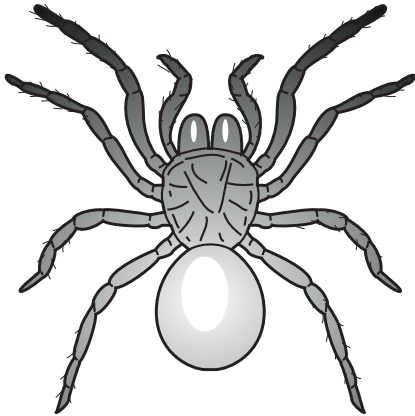
Put A, B, C or D in the correct place at the bottom of his key.



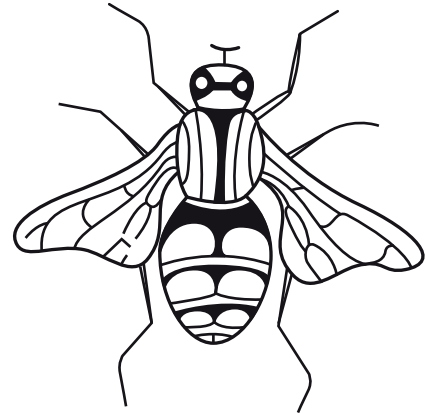
[2]

(b) Youssef wants to make a key to identify a spider and an insect.

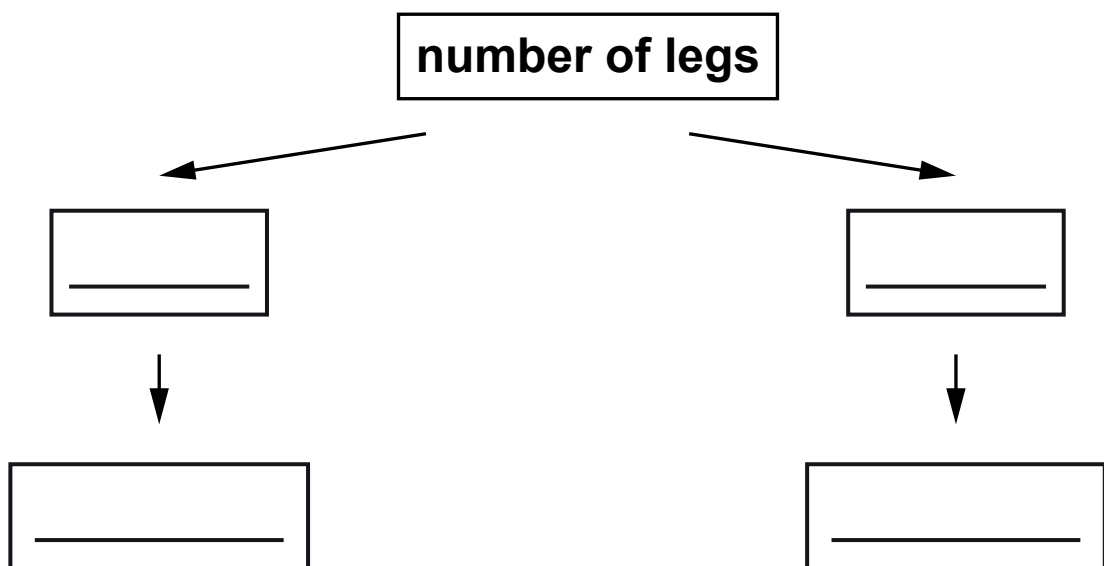
spider



insect

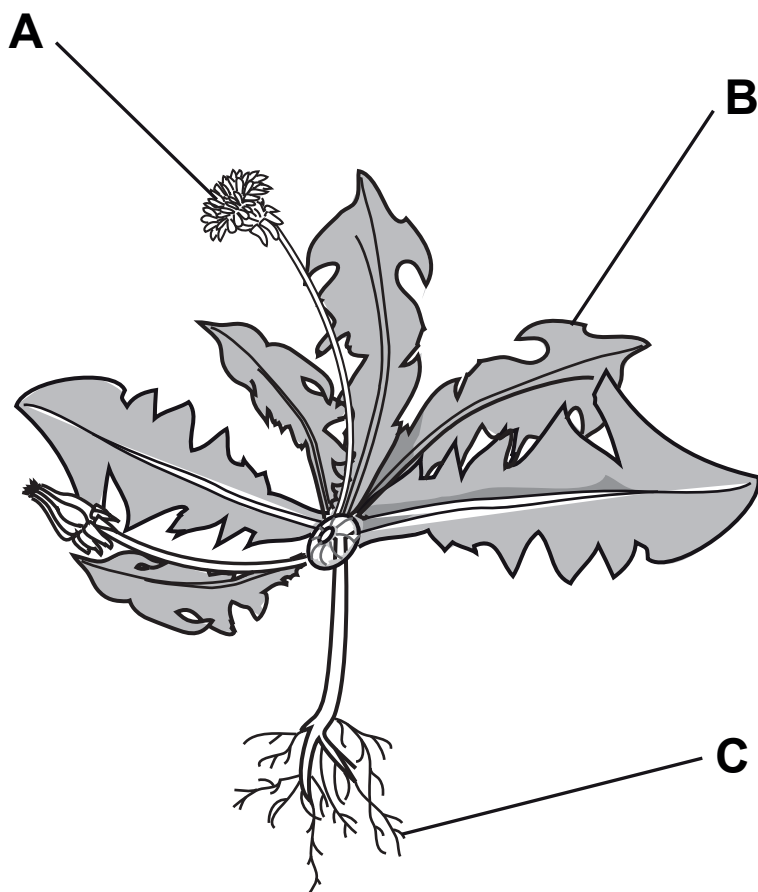


Complete the key using number of legs.



[2]

12 Plants have different parts.



Write down the names of parts A, B and C.

A _____

B _____

C _____

[1]

13 Mike writes some notes about the Earth and the Sun.

He has left two gaps in his notes.

Complete Mike's notes.

The Earth takes one _____ to orbit the Sun.

The Earth spins on its _____ as it orbits the Sun.
[2]

14 Draw a line to match each MATERIAL to its correct DESCRIPTION at room temperature.

MATERIAL

DESCRIPTION

gasoline

flammable liquid

gold

colourless gas

green gas

mercury

attracted to a magnet

oxygen

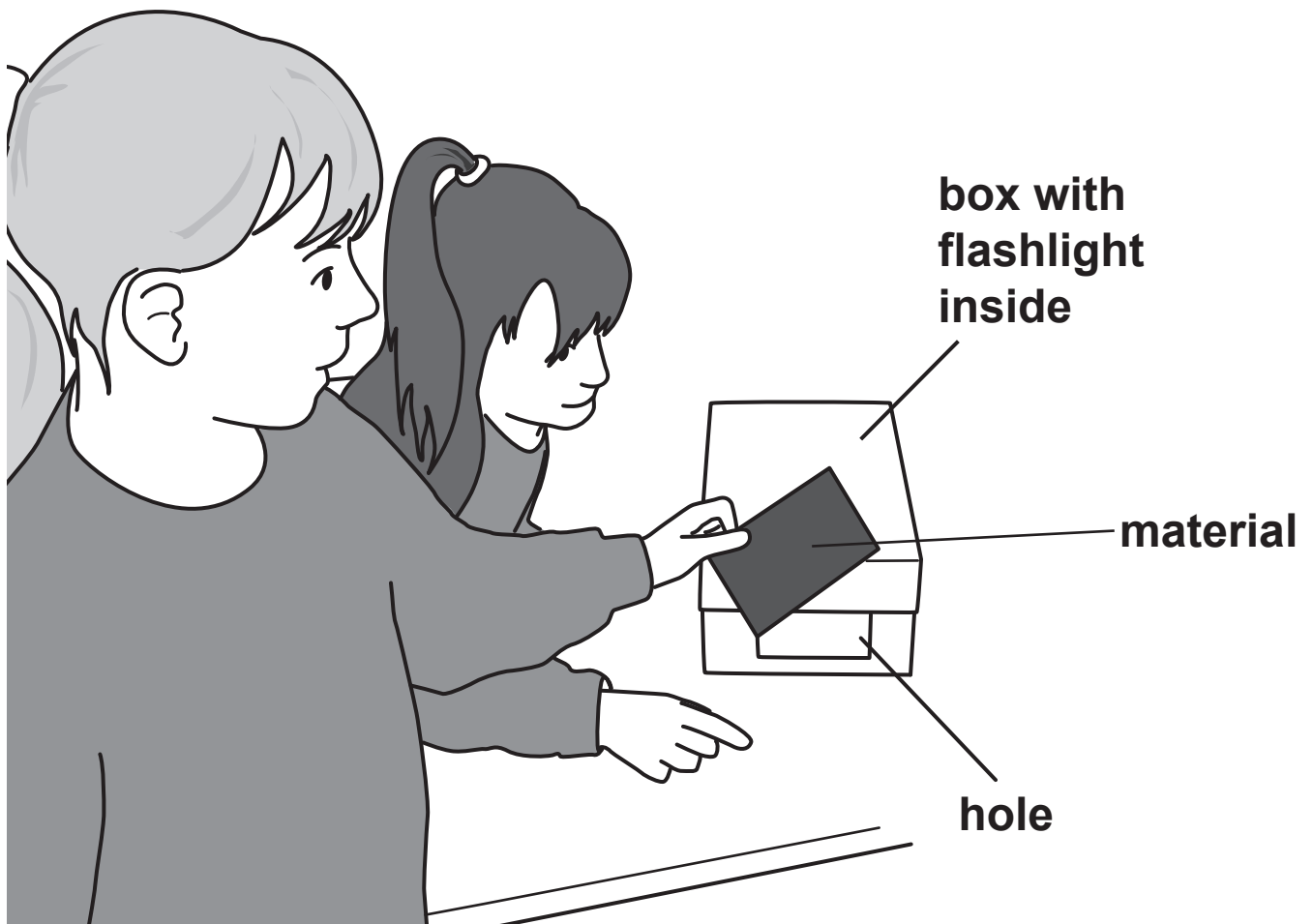
shiny solid

silver liquid

[4]

15 Class 6 investigate light.

- A hole is cut in a box.
- A flashlight is put inside the box.
- Different materials are put over the hole in the box.



- (a) Predict what will happen if the material is TRANSPARENT.**

Complete the sentence.

**If the material is transparent I predict _____
_____. [1]**

- (b) Why do we see light from the flashlight?**

Circle the correct answer.

LIGHT GOES INTO OUR EYES

LIGHT IS REFLECTED BY OUR EYES

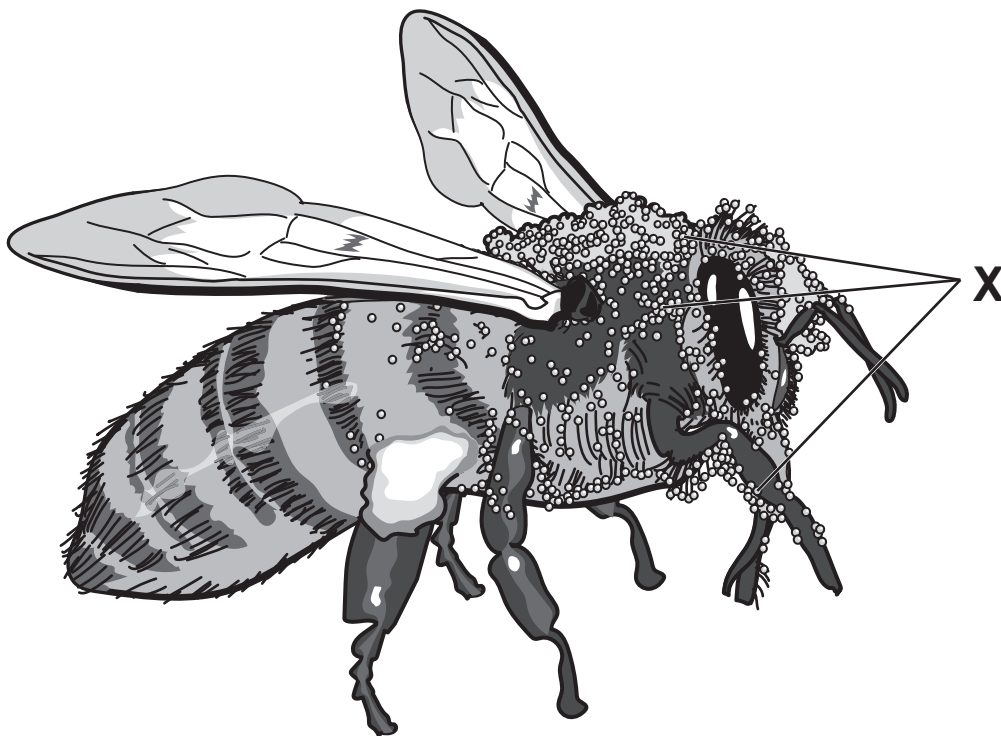
LIGHT GOES INTO THE FLASHLIGHT

LIGHT IS REFLECTED BY THE FLASHLIGHT

[1]

16 A bee visits a flower.

The bee has little particles from the flower stuck to it.



The particles are labelled X on the picture.

(a) Write down the name of the particles.

_____ [1]

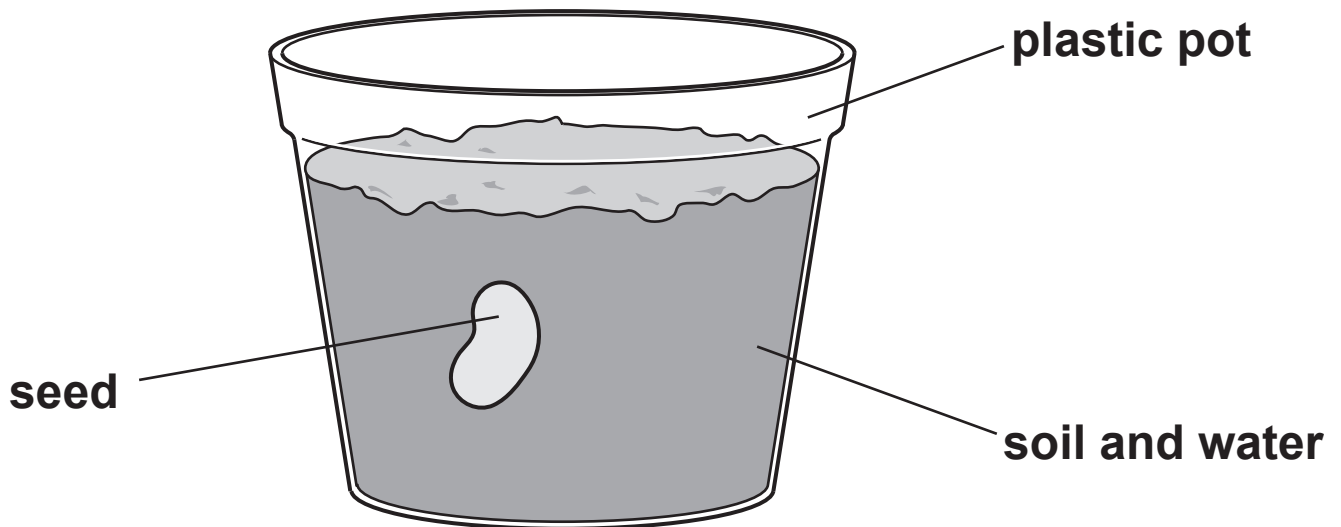
(b) The bee's visit to the flower helps with a process in the life cycle of the plant.

Write down the name of this process.

_____ [1]

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17 Jamila and Lily are investigating how a seed grows.



- **Jamila puts one seed in a plastic pot.**
- **Lily adds soil and water.**
- **They leave the seed to germinate.**
- **They look at the seed every day for 6 days.**

(a) Seeds need water to germinate.

Write down ONE other thing seeds need to germinate.

_____ **[1]**

Here are the results.

DAY	LENGTH OF ROOT IN cm	LENGTH OF STEM IN cm
0	0	0
1	1.0	0
2	1.8	0
3	2.8	0.5
4	4.0	4.0
5	5.6	5.9
6	7.4	8.0

(b) The results are written in a table.

Describe one other way of showing the results.

_____ **[1]**

(c) Complete the sentences about the results.

The first one has been done for you.

On day 3 the root is longer than the stem.

On day 4 _____

_____ .

On day 5 _____

_____ .

[2]

18 Rajiv has two big magnets.

(a) He puts the magnets in different positions.

Complete the sentences under each diagram.



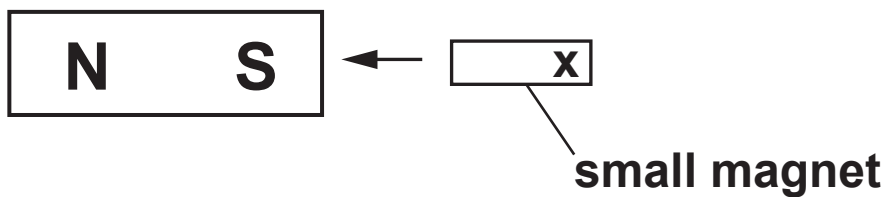
In this position the magnets will _____ .



In this position the magnets will _____ .
[1]

(b) Rajiv puts a smaller magnet near one of the big magnets.

The small magnet moves towards the big magnet.



What is the pole at X on the small magnet?

[1]

(c) Some objects are attracted to magnets.

Circle the correct objects that are attracted to magnets.

ALUMINIUM COMB

COPPER PIPE

GOLD RING

IRON NAIL

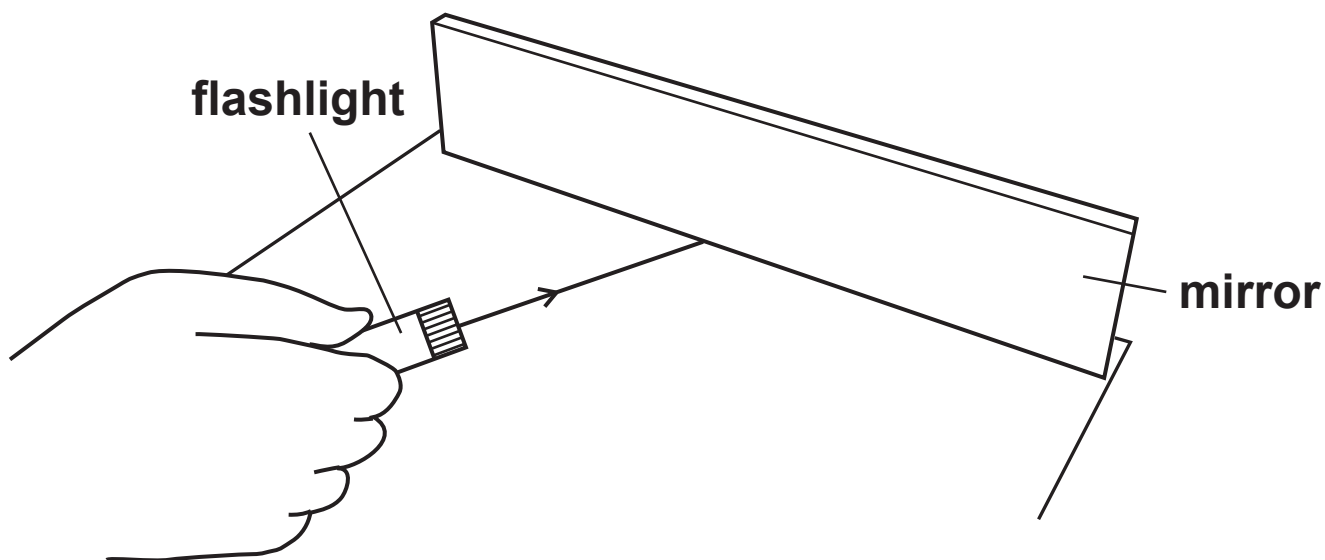
NICKEL COIN

STEEL PAPERCLIP

[2]

19 Priya investigates reflection of light using a flashlight.

She shines the flashlight at a mirror and draws the path of the ray of light.



Priya has not completed the diagram.

Draw the ray of light coming from the mirror.

[1]

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