

35 minutes

Science Paper 1

Stage 3

Name

Additional materials: Ruler

READ THESE INSTRUCTIONS FIRST

Answer **all** questions in the spaces provided on the question paper.

You should show all your working on the question paper.

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

The total number of marks for this paper is 40.

| For Teacher's Use | |
|-------------------|------|
| Page | Mark |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |
| Total | |

1 Materials have different properties.

Tick (✓) the best material to make each item.

One has been done for you.

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| item | metal | plastic | rubber |
|---|-------|---------|--------|
|  tip of walking stick | | | ✓ |
|  key | | | |
|  lens | | | |
|  car tyres | | | |
|  saucepan | | | |

[4]

2 Class 3 have a quiz about humans and other animals.

Write the answers to their clues.

(a)



Animals that have feathers and fly are called

[1]

(b)



Carnivores are animals that eat

[1]

(c)

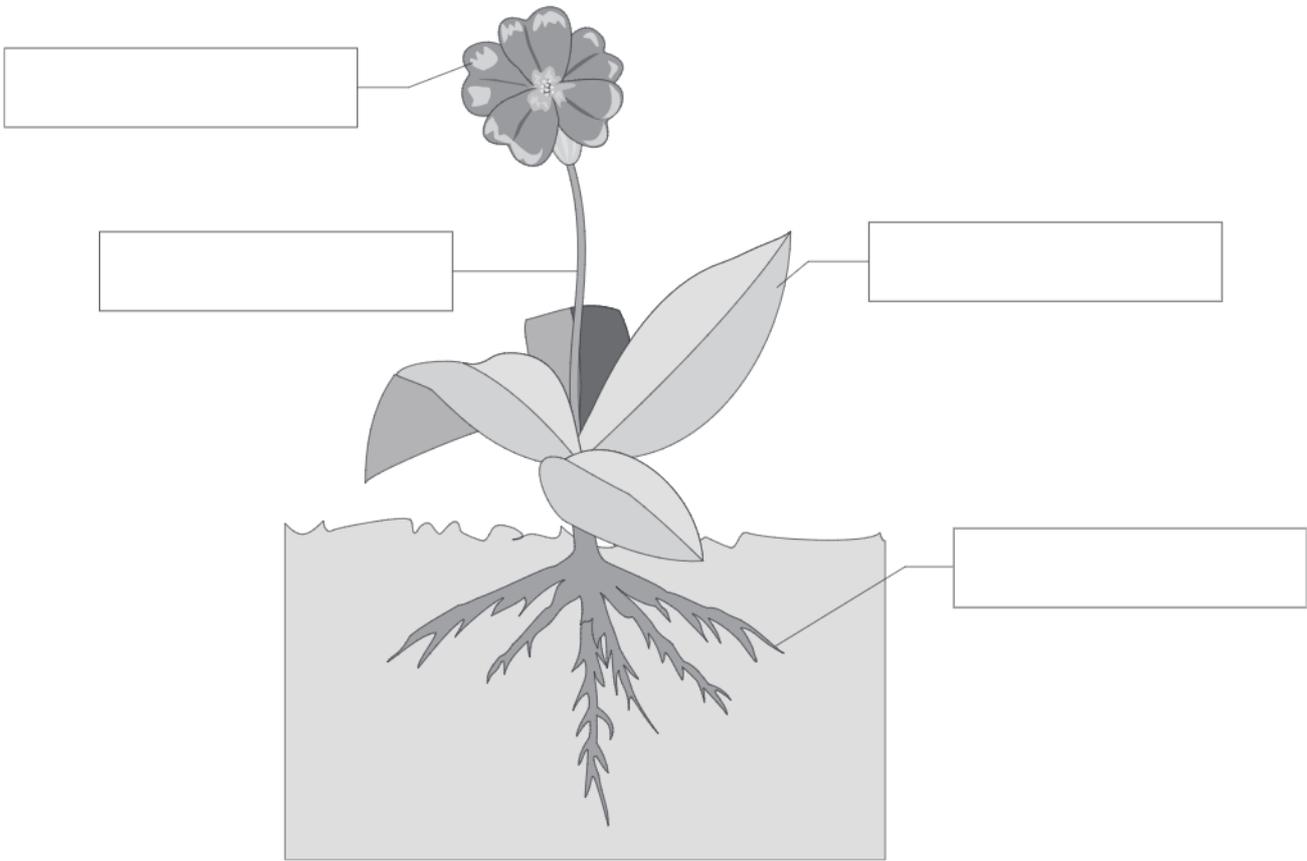


A rabbit is a living thing because it

[1]

3 Label the diagram of the plant.

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Use



[2]

4 Lisa plays with soft clay.

(a) She pushes the clay.



What does the clay look like after Lisa pushes it?

Circle **one** answer.

bigger

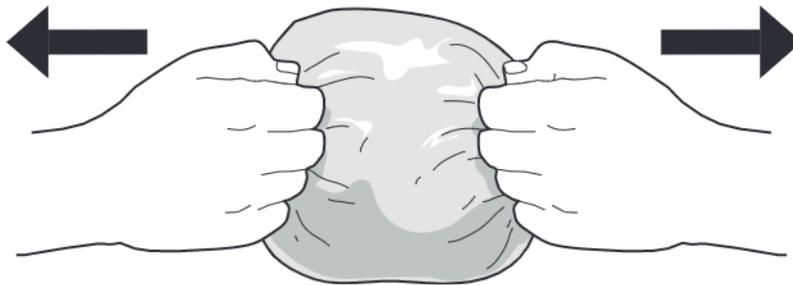
squashed

stretched

twisted

[1]

(b) She pulls the clay.



What does the clay look like after Lisa pulls it?

Circle **one** answer.

smaller

squashed

stretched

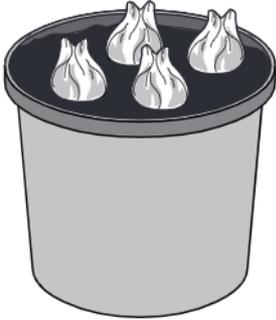
twisted

[1]

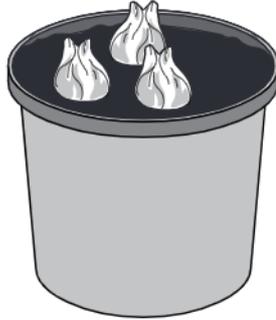
5 Greg and Nikki investigate how plant bulbs grow.

They want to find out if temperature affects the growth of the bulbs.

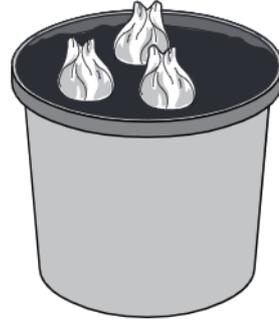
They put some bulbs in 3 pots of **dry** compost.



cool dark cupboard



cold dark fridge



warm classroom
in a dark box

(a) They want to make a fair test.

What have they forgotten to keep the same?

..... [1]

(b) What else should they keep the same to make it a fair test?

..... [1]

(c) What must they give the plant bulbs at the start of their investigation?

..... [1]

(d) After 10 days, they look at one bulb from each pot.



cool dark cupboard



cold dark fridge



warm classroom
in a dark box

Finish their conclusion.

The plant bulbs grew best in the

This is because...

Circle the correct answer.

plants need water to grow

plants grow better in the dark place

plants grow better in a warm place

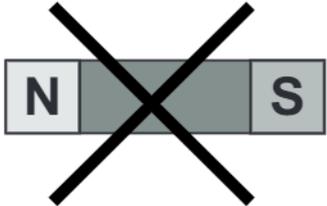
[2]

6 Class 3 use a magnet to try to separate some mixtures.

Tick (✓) to predict what they will find.

One has been done for you.

For
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Use

| mixture | can separate using a magnet  | cannot separate using a magnet  |
|---------------------------------------|--|---|
| wood chips and iron nails | | |
| salt and sugar | | |
| steel buttons and plastic buttons | ✓ | |
| copper bracelets and silver bracelets | | |
| iron powder and steel powder | | |
| steel balls and glass balls | | |
| silver coins and nickel coins | | |

[3]

7 Gemma and Fredrik investigate floating and sinking in water.

Tick (✓) to predict what they will find.

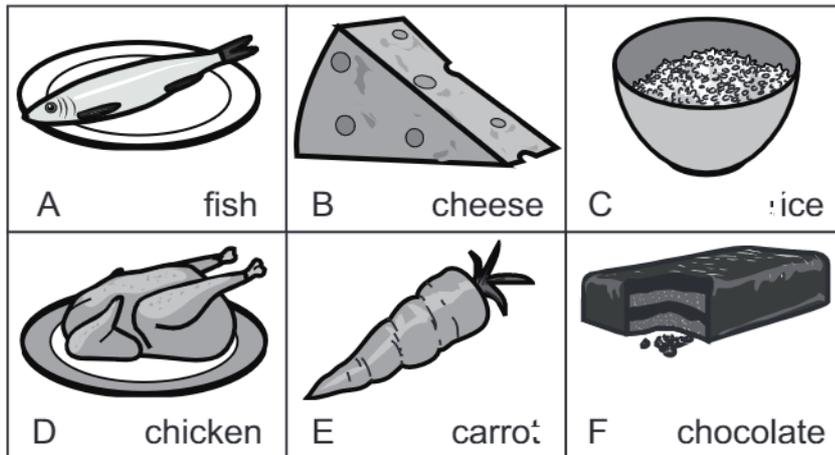
One has been done for you.

| object | will float | will sink |
|--|------------|-----------|
|  silver coin | | ✓ |
|  bar of soap | | |
|  wooden brick | | |
|  metal toy car | | |
|  stone | | |
|  tennis ball | | |
|  glass marble | | |

[3]

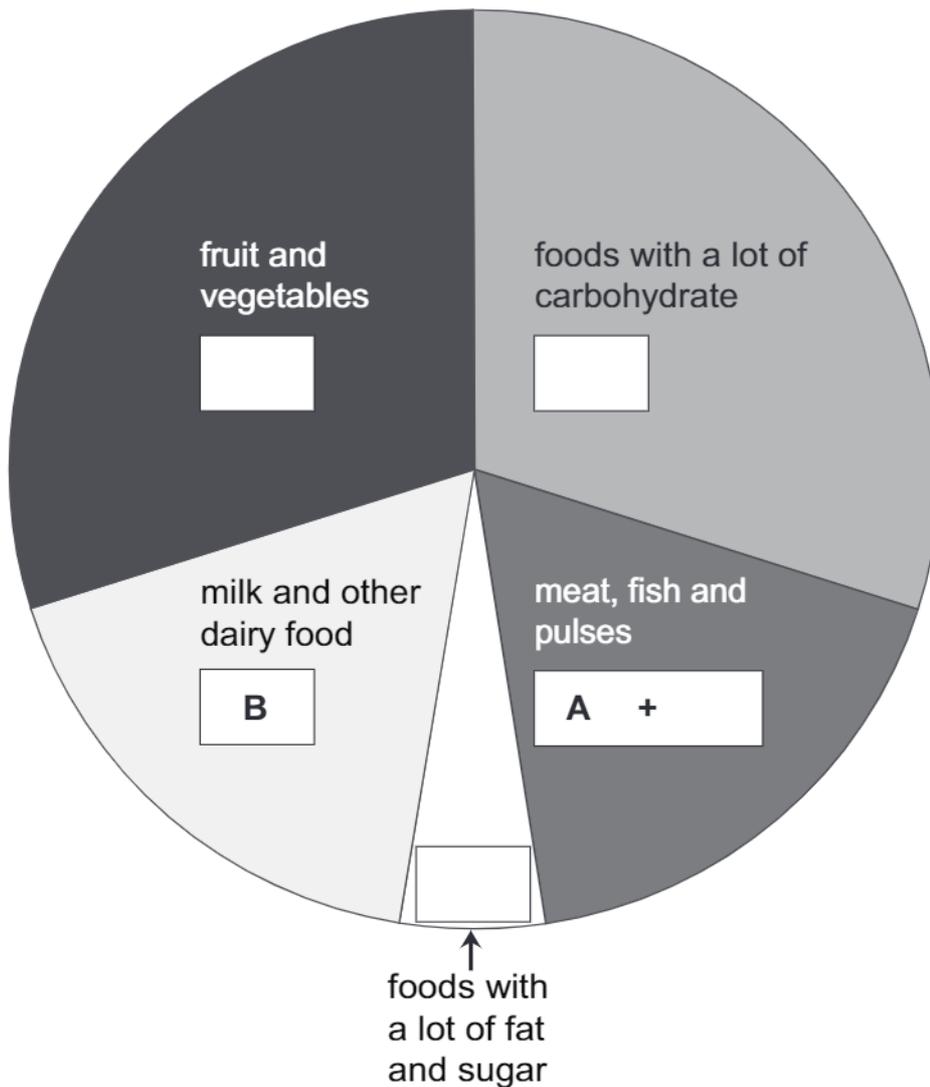
8 The pictures show some foods.

For
Teacher's
Use



(a) Put the letter for each food into the correct group.

Two foods have been done for you.



[4]

(b) Why is it important to eat foods from different groups?

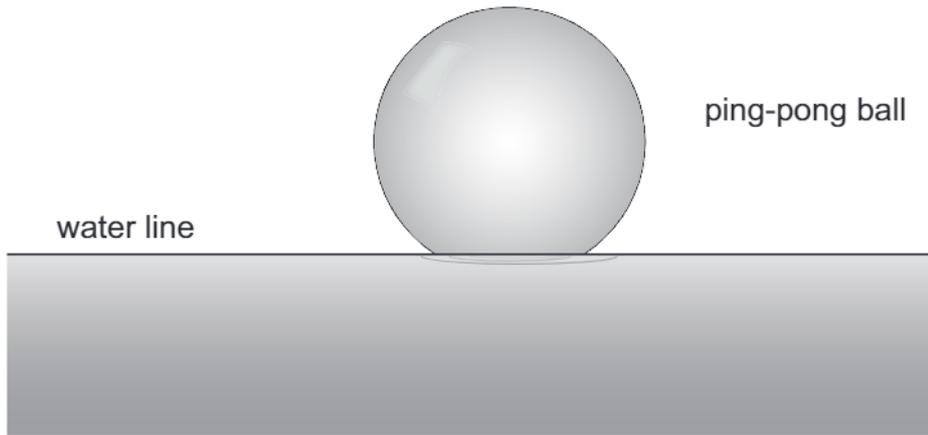
..... [1]

(c) Which group should we **not** eat too many foods from?

..... [1]

*For
Teacher's
Use*

- 9 Leroy and Patience float a ping-pong ball on water.



For
Teacher's
Use

They push the ping-pong ball under the water.

Then they let it go.

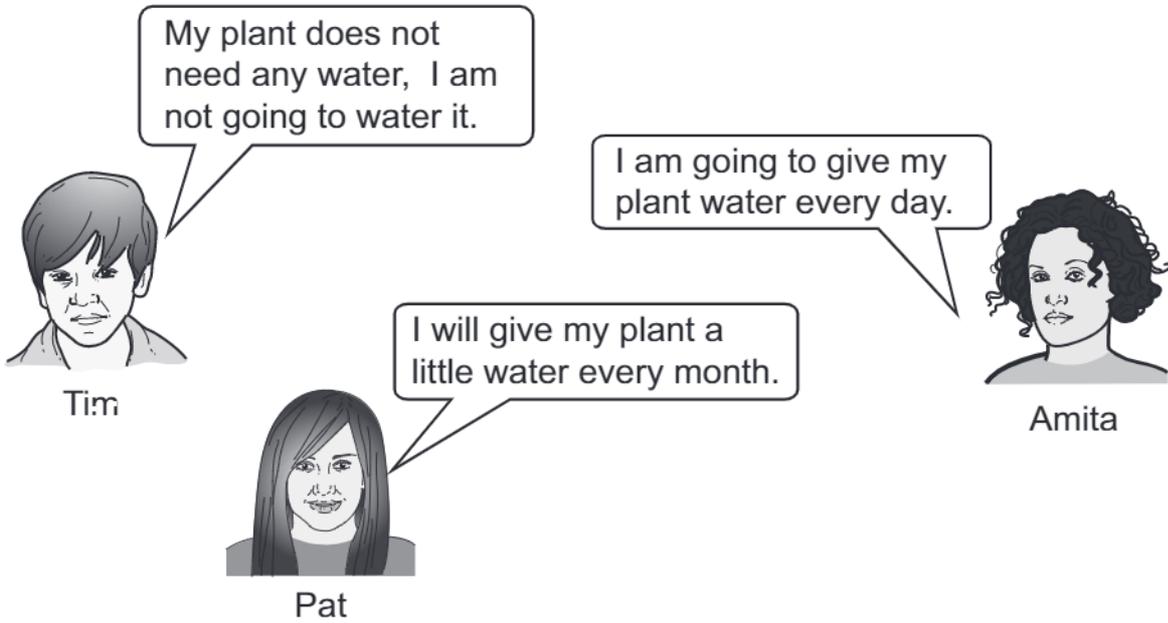
- (a) What happens to the ping-pong ball?

..... [1]

- (b) Which force makes this happen?

..... [1]

10 Tim, Pat and Amita are looking after some plants.



My plant does not need any water, I am not going to water it.

I am going to give my plant water every day.

I will give my plant a little water every month.

Tim

Pat

Amita

(a) Whose plant will grow best?

..... [1]

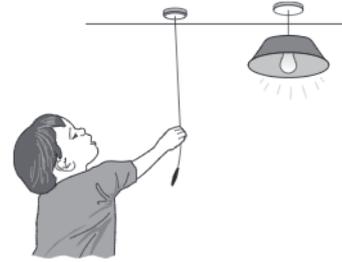
(b) Why will this plant grow best?

..... [1]

11 Forces can be pushes or pulls.

Write **pushing** or **pulling** to finish these sentences.

Tom switches on the light by



Sam closes the door by



Nadia opens the door by



Jo opens the window by



[2]

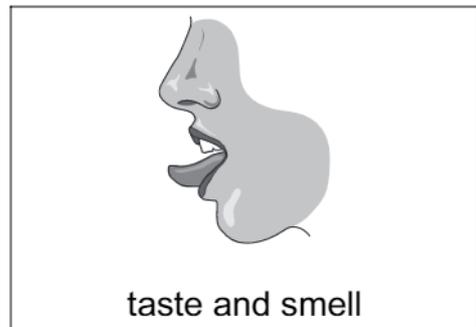
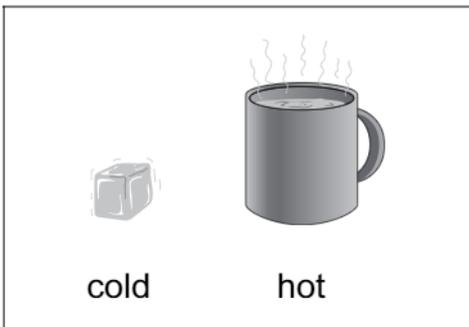
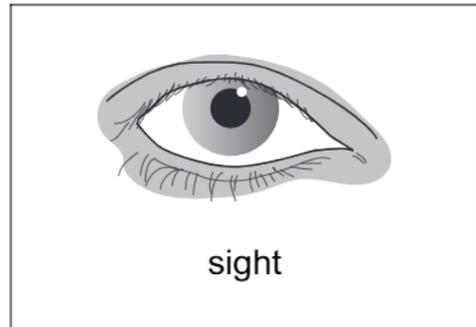
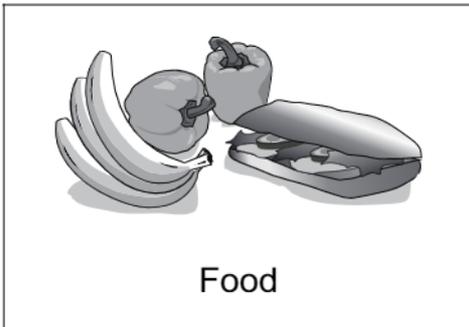
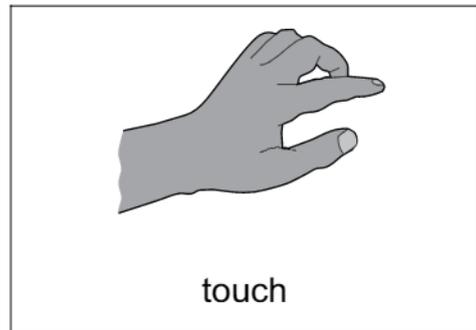
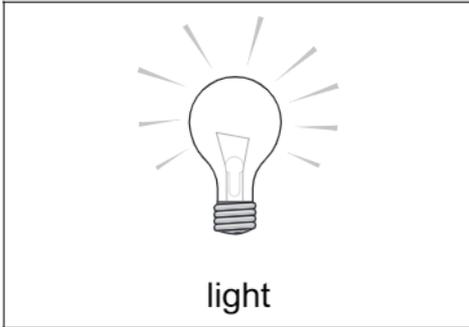
12 Humans use senses to find out about their environment.

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Use

Join with a line the **stimulus** to the correct **sense**.

stimulus

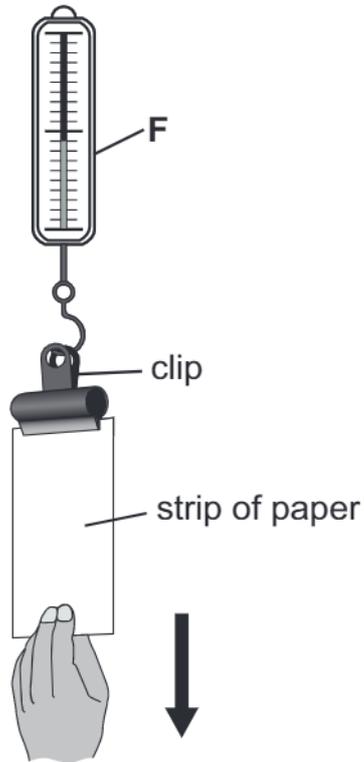
sense



[3]

13 Xan and Asya are testing the strength of different sorts of paper.

They set up their test like this.



(a) Name the equipment labelled **F**.

..... [1]

(b) What sort of force are they measuring?

..... [1]

(c) How can Xan and Asya make the force **bigger**?

..... [1]