



Cambridge International Examinations
Cambridge Primary Checkpoint

CANDIDATE
NAME

CENTRE
NUMBER

--	--	--	--	--

CANDIDATE
NUMBER

--	--	--	--



SCIENCE

0846/01

Paper 1

April 2017

45 minutes

Candidates answer on the Question Paper.

Additional Materials:

Pen
Pencil
Ruler

Calculator

READ THESE INSTRUCTIONS FIRST

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

This document consists of **19** printed pages and **1** blank page.

1 Class 6 have a quiz about the human body.

Their teacher gives them 4 questions.

Answer the questions on the quiz.

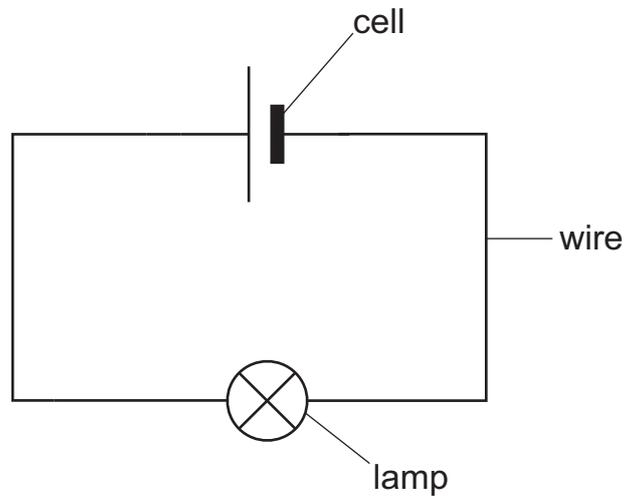
Human Body Quiz

1. Which organs do humans use to breathe?
.....
2. Which organ is protected by the skull?
.....
3. Which organs are connected to the bladder?
.....
4. Which organ breaks down poisons (harmful things)?
.....

[2]

2 Rajiv is investigating electrical circuits.

Here is his circuit.



Rajiv wants to make the lamp **brighter**.

Tick (✓) the **two** correct boxes.

add another cell

add another lamp

make the wires longer

make the wires shorter

remove one cell

[2]

3 Flowering plants have a life cycle.

Choose the correct stage for each picture.

fertilisation

germination

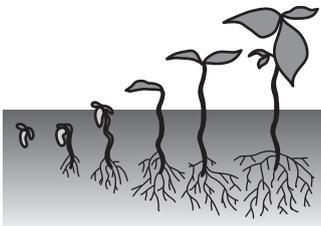
pollination

seed dispersal

seed production



.....



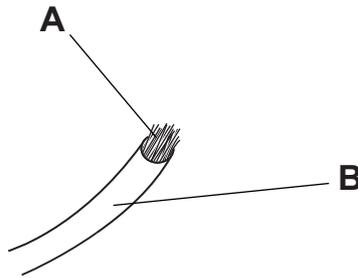
.....



.....

[3]

4 Wires are used in electrical circuits.



Complete the sentences.

Choose from the following words.

conductor copper insulator plastic reflector wood

These words can be used once, more than once or not at all.

Material **A** is

This material is used because it is a good

Material **B** is

This material is used because it is a good

[3]

5 The three states of matter are solid, liquid and gas.

(a) The table shows the state of matter at room temperature of some substances.

Complete the table by putting ticks (✓) in the correct boxes.

Water has been done for you.

substance	state of matter at room temperature		
	solid	liquid	gas
carbon dioxide			
gasoline			
mercury			
water		✓	
wood			

[2]

(b) Copper has a melting point of 1083 °C.

What change of state happens when copper **melts**?

..... to [1]

(c) Copper has a boiling point of 2567 °C.

What change of state happens when copper **boils**?

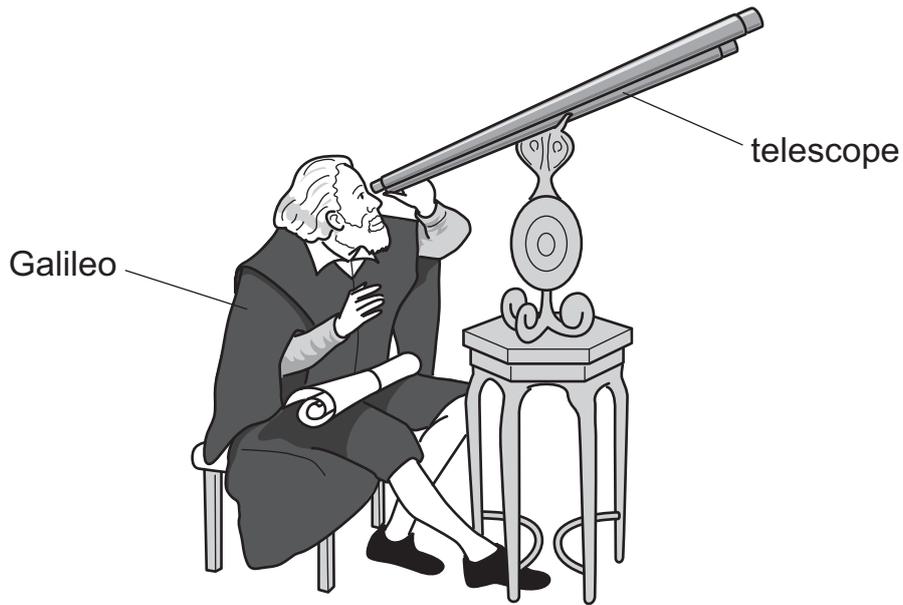
..... to [1]

(d) Copper is heated to 2000 °C.

What is the state of matter of copper at 2000 °C?

..... [1]

6 Galileo used a telescope to look into space.



Write down **two** things Galileo saw with his telescope.

- 1
- 2 [1]

7 Mia and Oliver are thinking of ways to care for the environment.

Tick (✓) **three** ways to care for the environment.

have a bath

re-use paper

throw away glass bottles and jars

turn lights off

use litter bins

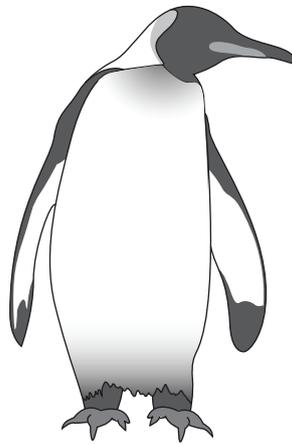
[2]

8 Complete the sentences about shadows.

(a) Shadows are made when light is [1]

(b) During the day shadows change in [1]

9 Penguins live in the Antarctic.



It is very cold and icy in the Antarctic.

Penguins are suited to live in the Antarctic.

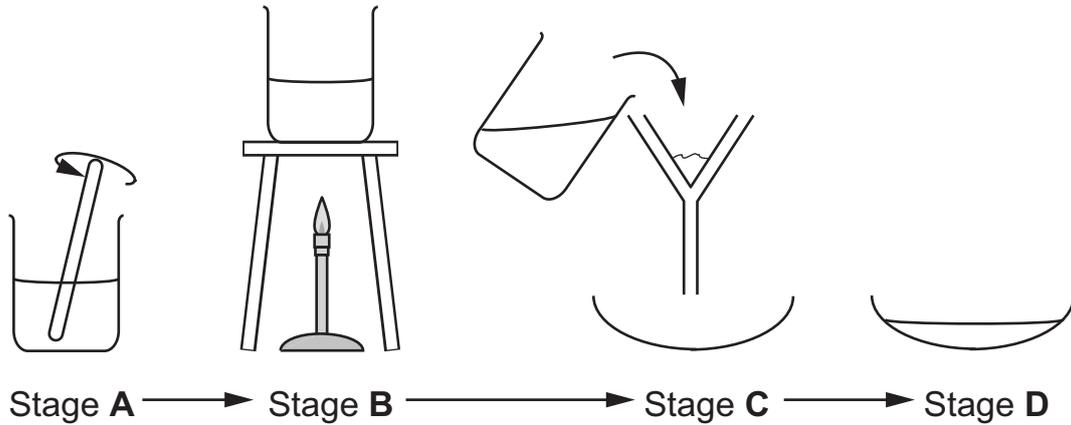
They have a short tail to help them stand on the ice.

Describe two **other** ways they are suited to live in the Antarctic.

1
.....

2
..... [2]

10 Ahmed separates a mixture of salt and sand.



(a) Why is water added to the mixture at stage **A**?

..... [1]

(b) Which substance in the mixture is insoluble?

..... [1]

(c) Why is the mixture gently heated in stage **B**?

..... [1]

(d) Which substance is left on the filter paper in stage **C**?

..... [1]

11 Youssef uses an inhaler.

He has asthma.

He needs the medicine in the inhaler to help him breathe.



Complete the sentences.

Youssef puts the inhaler in his

He presses the inhaler and

The medicine travels down his windpipe to his

The medicine opens his airways and he gets oxygen into his body. [2]

12 Angelique shakes a bell to make a sound.



(a) Complete the sentence.

The bell makes a sound because it [1]

(b) Angelique shakes a smaller bell with the same force.

It makes a different sound to the larger bell.

Describe how the sound of the **smaller** bell is different.

..... [1]

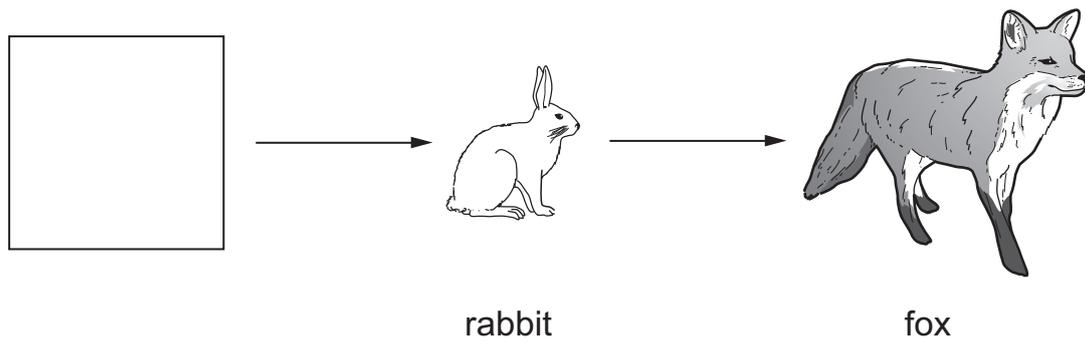
(c) Angelique shakes the smaller bell with less force.

It makes a different sound.

Describe how the sound made with **less force** is different.

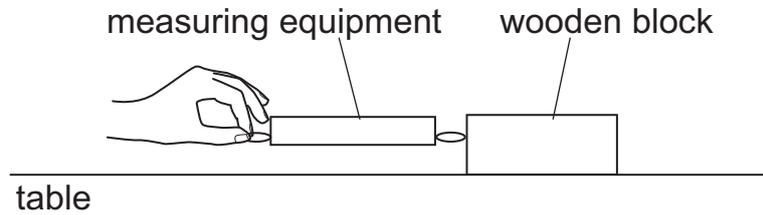
..... [1]

13 Look at the feeding relationship.



14 Mike investigates forces.

Here is his apparatus.



Mike pulls the block of wood using the measuring equipment.

(a) What is the name of the force that tries to stop the block moving?

..... [1]

(b) What is the name of the measuring equipment?

..... [1]

(c) What unit is force measured in?

Circle the correct unit.

kilogram

metre

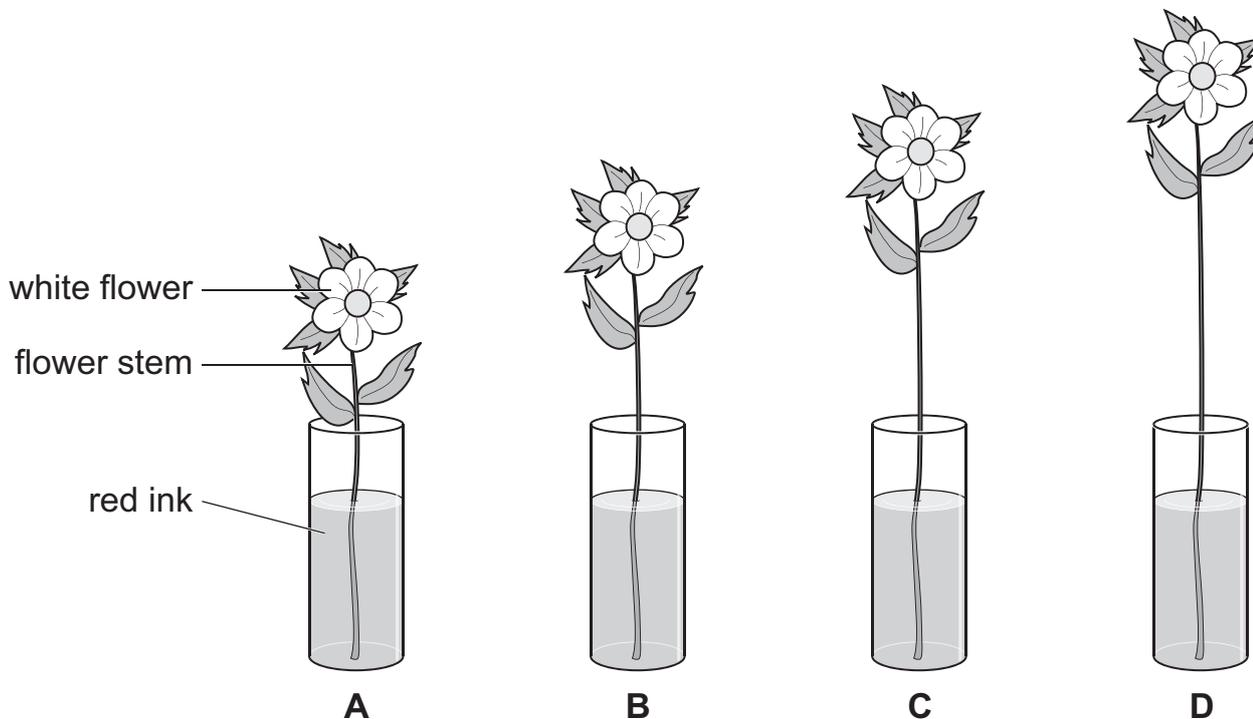
newton

[1]

15 Yuri investigates water movement in flowers.

He has four different length flower stems.

He puts them into red ink (coloured water).



Here are Yuri's results.

flower	time for flower to turn red in minutes
A	20
B	30
C	40
D	

(a) Predict the result for flower D.

It takes minutes for the flower to go red. [1]

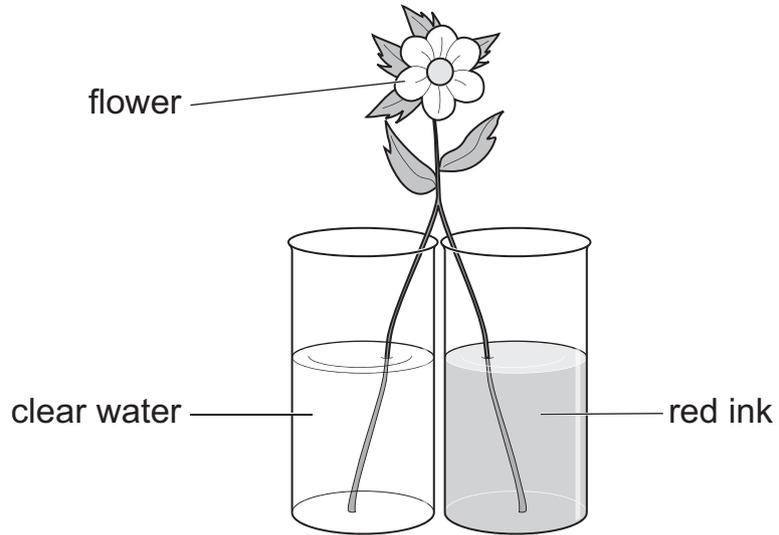
(b) What happens if Yuri uses blue ink?

..... [1]

(c) Yuri carries out the investigation again.

He splits the stem in half.

He puts half the stem in clear water and half the stem in red ink.

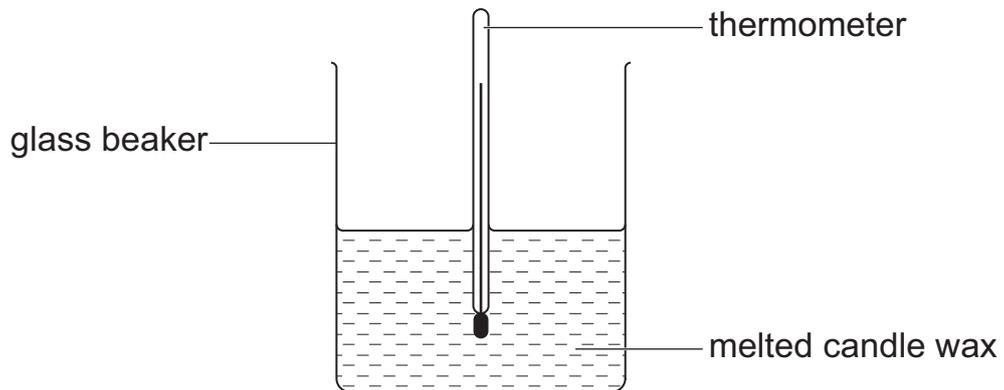


On the diagram above shade the part of the flower that turns red.

[1]

16 Gabriella investigates the cooling of melted candle wax.

Here is the apparatus she uses.



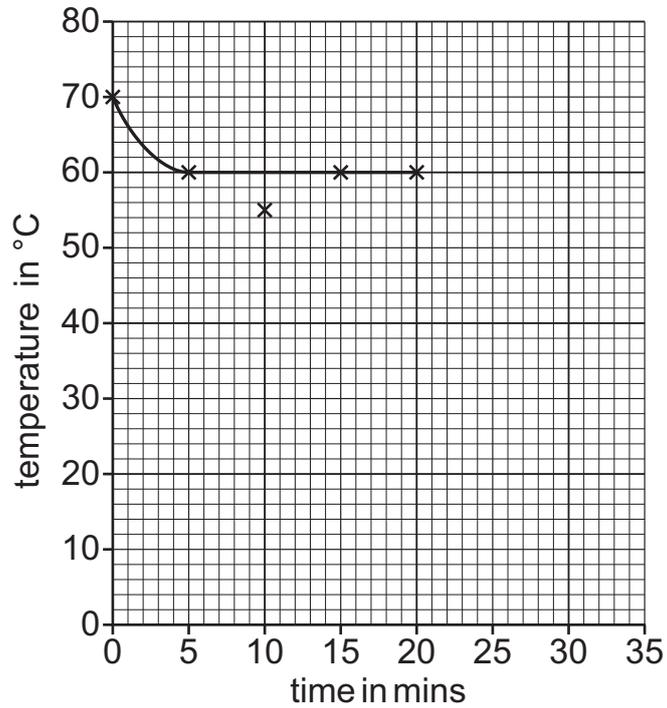
She measures the temperature of the candle wax every 5 minutes.

Here are her results.

time in minutes	temperature in °C
0	70
5	60
10	55
15	60
20	60
25	55
30	50

(a) Gabriella has plotted the first five results on this graph.

Plot the other two results.



[2]

(b) Complete the line graph.

[1]

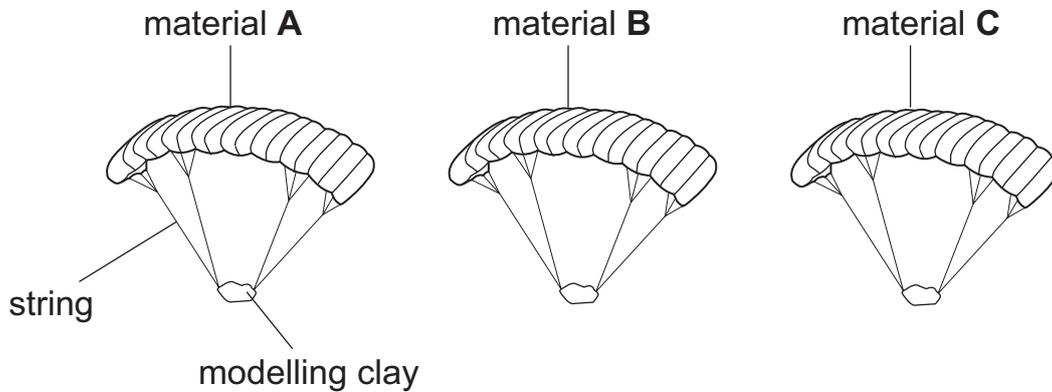
(c) One of the results is **not** correct, it does **not** fit the pattern.

This result is at minutes.

[1]

17 Priya investigates how quickly parachutes fall.

Here are her 3 parachutes.



(a) Priya wants to make her investigation a fair test.

What should she do?

Tick (✓) the **two** correct boxes.

use a stop watch to measure the time

use the same colour of material

use the same mass of modelling clay

use the same materials

use the same size of material

[2]

(b) Here are Priya's results.

material	time to fall in seconds
A	5.1
B	6.2
C	4.8

The best parachute falls the slowest.

Which material makes the best parachute?

..... [1]

18 Copper is a metal.

Put ticks (✓) next to the **three** correct properties of copper.

- conducts electricity
- low melting point
- shiny
- soft
- soluble in water
- strong

[3]

BLANK PAGE

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.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge International Examinations Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cie.org.uk after the live examination series.

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