

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge Primary Checkpoint

CANDIDATE
NAME

CENTRE
NUMBER

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CANDIDATE
NUMBER

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SCIENCE

Paper 1

0846/01

October 2013

45 minutes

Candidates answer on the Question Paper.

Additional Materials:

Pen
Pencil
Ruler

Calculator

* 8 5 8 8 9 4 9 2 9 8 *

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.

For Examiner's Use	
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Total	

This document consists of **18** printed pages and **2** blank pages.






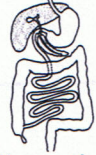
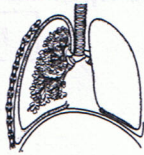
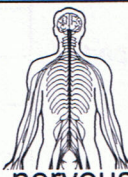

1 Each body system contains organs.

Here is a table.

It shows the body system and an organ found in the body system.

Complete the table.

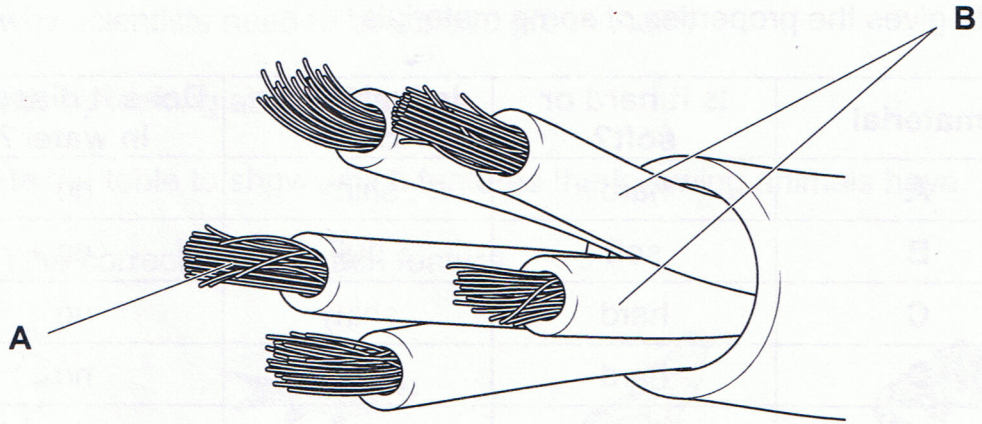
Two have been done for you.

system	organ
 circulatory
 digestive	stomach
 respiratory
 nervous	brain
 excretory

[3]



2 Electrical cables contain wires.



(a) Complete these sentences.

Part A needs to be a good of electricity.

The best material to use is [2]

(b) What material is used to make the parts labelled B?

..... [1]

DO NOT WRITE IN THIS MARGIN





3 Different materials have different properties.

The table gives the properties of some materials.

material	Is it hard or soft?	Is it shiny or dull?	Does it dissolve in water?
A	hard	shiny	no
B	soft	dull	no
C	hard	shiny	no
D	hard	shiny	no
E	soft	dull	yes
F	soft	dull	no

(a) Which material dissolves in water?

..... [1]

(b) Scientists often sort materials using their properties.

Sort the materials **A** to **F** in the table into two groups.

Two materials have been done for you.

first group	second group
A	B
.....
.....

[2]

(c) Material **A** is attracted to a magnet.

Write down the **name** of a material that is attracted to a magnet.

..... [1]



4 There are hundreds of different species in the world.

This is why scientists need to be able to group them.

We do this by looking at their features.

Complete the table to show which features the following animals have.

Tick (✓) the correct box for each feature.



mammal

fish

bird

reptile

	features			
	scales	feathers	backbone	hairy skin
mammal				
fish				
bird				
reptile				

[4]



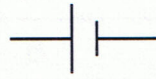
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5 Class 6 investigate electric circuits.

(a) Hania builds a complete circuit to turn one lamp on and off.

Draw the circuit diagram using these symbols.



cell



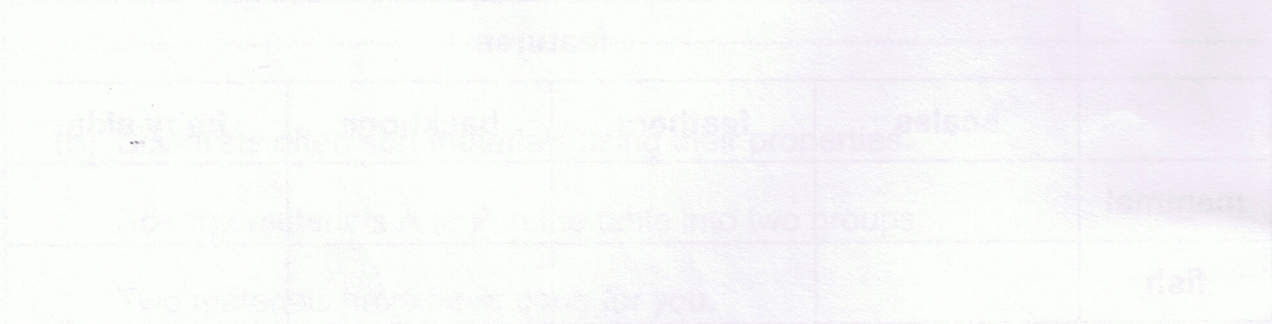
wire



switch



lamp



[2]

(b) Hania adds another lamp to the circuit.

What happens to the brightness of the lamps?

Circle the correct answer.

decreases

increases

stays the same

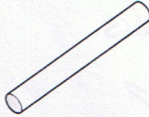
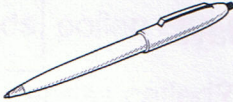


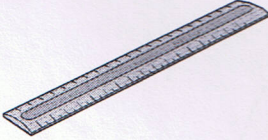
[1]



(c) Hania removes the switch from her circuit.

She replaces the switch with an object shown in the table.

Tick (✓) the box if the lamps work.

object to replace switch	lamps work
 a piece of chalk	
 plastic pen	
 an iron nail	
 a coin	
 wooden ruler	

[2]



DO NOT WRITE IN THIS MARGIN



6 (a) Nadine and Gita are discussing the movement of the Earth.

They are discussing five ideas.

Tick (✓) the **two** correct statements.

The Earth orbits the Sun every 24 hours.

The Earth spins on its axis once every 24 hours.

The Sun spins on its axis every 24 hours.

The Earth orbits the Sun once every 365 days.

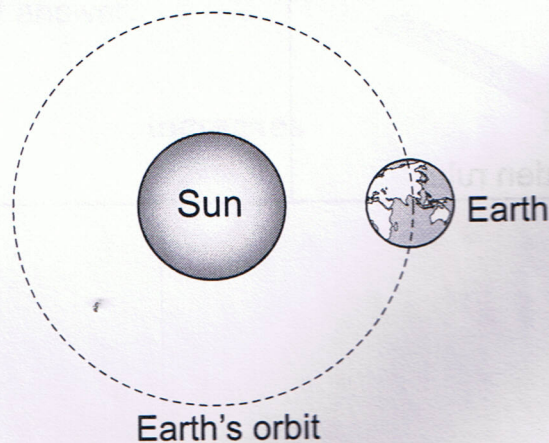
The Sun orbits the Earth once every 365 days.

[1]

(b) The diagram shows the positions of the Sun and the Earth in December.

Where will the Earth be in June?

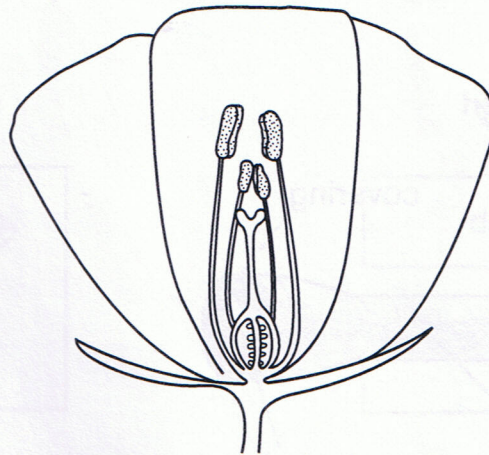
Draw a cross (X) on the diagram.



[1]



7 Here is a diagram of a flower.



(a) To make seeds, pollen and ova join together.

What is this process called?

..... [1]

(b) Why is it important that seeds are dispersed away from the parent plant?

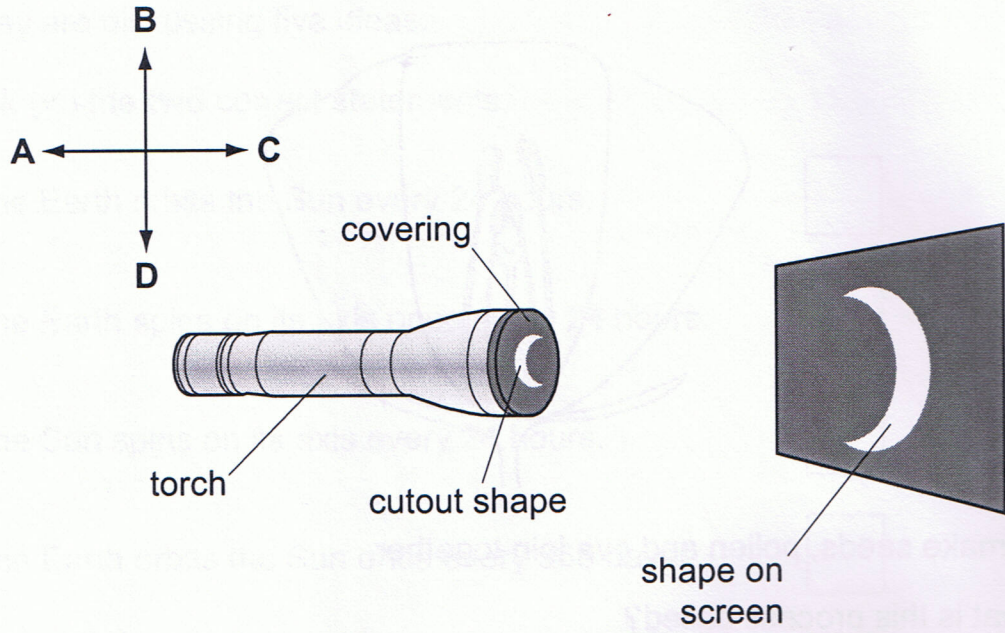
.....
..... [1]

DO NOT WRITE IN THIS MARGIN





8 A torch has a covering on the end to make shapes on a screen.



(a) Why does the covering make a shadow on the screen?

..... [1]

(b) The torch is moved to make a smaller shape on the screen.

Which **letter** shows the direction the torch is moved?

..... [1]

(c) What word is used to describe materials that **do not** let light through?

..... [1]

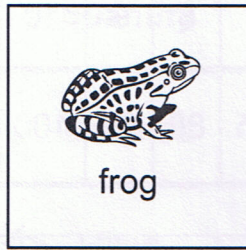


9 Animals and plants are found in different habitats.

(a) Draw a line from each picture to the habitat it is found in.

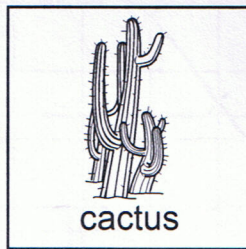
picture

habitat



desert

sea



pond

volcano

[2]

(b) Frogs need oxygen from their habitat.

What two **other** things does the frog need from its habitat?

1.

2.

[2]



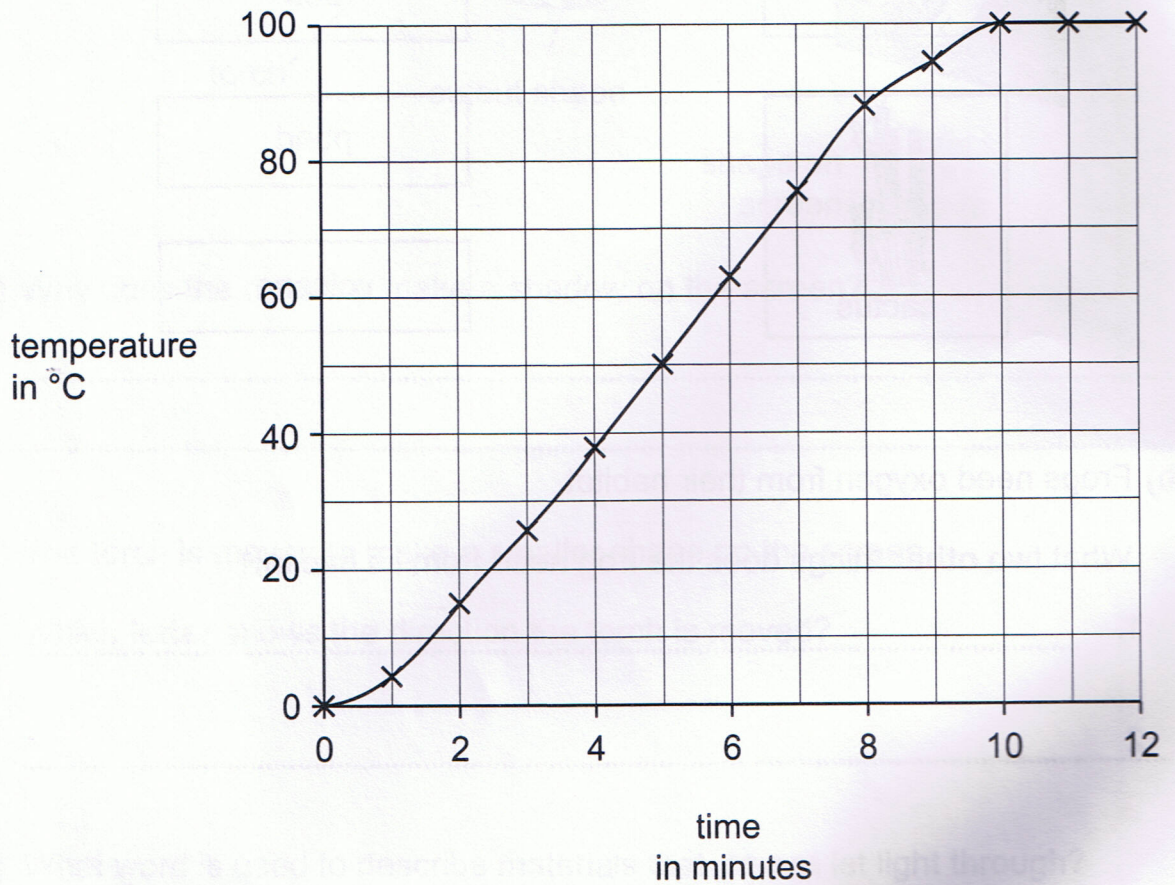


10 Roberto and Jill are exploring the effect of heat on melting ice.

They warm the ice and measure the temperature every minute.

Here are their results

time in minutes	0	1	2	3	4	5	6	7	8	9	10	11	12
temperature in °C	0	4	15	26	38	50	62	75	88	94	100	100	100



(a) Use the graph to find the temperature at 2 ½ minutes.

..... °C

(b) At 11 minutes, what is the process happening in the container?

.....
.....



11 Units are useful when you measure things.

(a) Complete the table.

The first two have been done for you.

quantity	unit	symbol
distance	metre	m
time	second	s
force
mass
weight

[2]

(b) Different equipment are used to measure things.

Which piece of equipment can be used to measure the volume of sound?

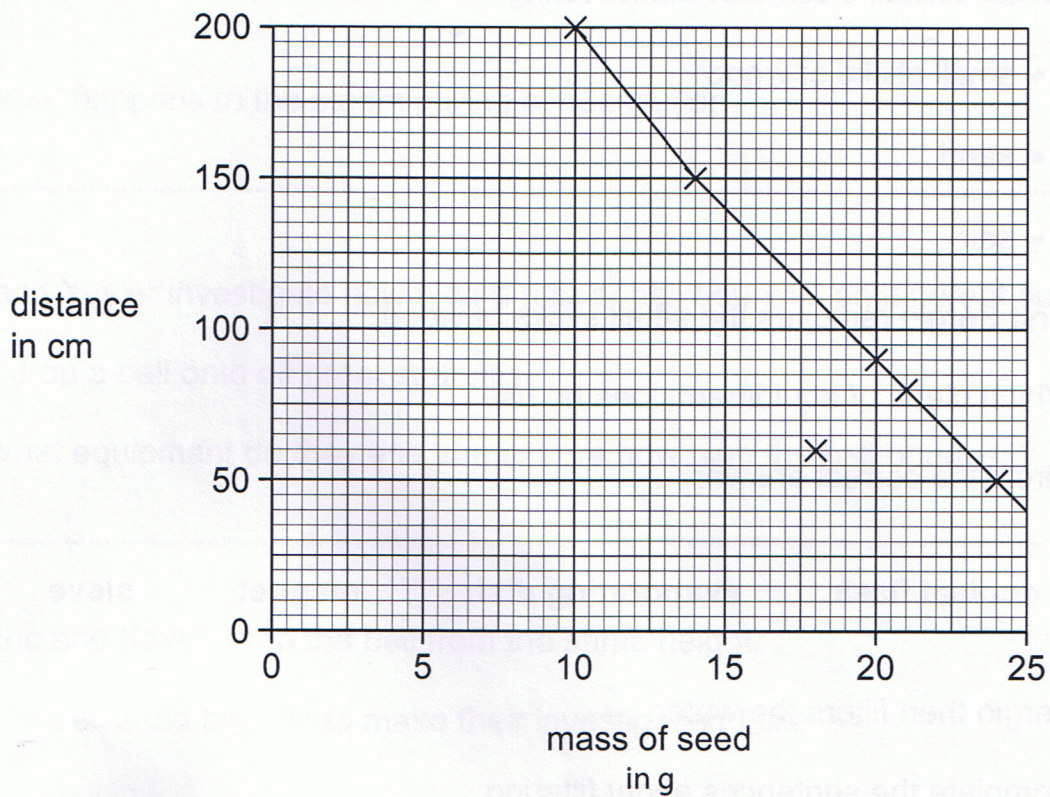
..... [1]



DO NOT WRITE IN THIS MARGIN



Janey and Danni plot their results on a graph.



(b) They find one result does not fit the pattern.

How can they make their results more reliable?

.....

..... [1]

(c) Janey had said 'I think the heavier seeds roll further'.
Danni had said 'I think the lighter seeds roll further'.

Which girl, Janey or Danni, had made the correct prediction?

Explain your answer.

.....

..... [1]





13 Sergio wants to purify some water.

The water contains some of the following:

- small sticks of wood
- sand
- salt

(a) First Sergio removes the small sticks of wood.

Which piece of equipment does he use?

Circle the correct answer.

conical flask evaporating dish magnet sieve

[1]

(b) Sergio then filters the water.

Complete the sentences about filtering.

Choose words from the list.

colourless insoluble soluble solution white

Sand is removed by filtering because sand is in water.

Salt passes through the filter paper because salt is in water.

[2]

Next Sergio heats salt solution to form steam.

The steam is then condensed.



(c) What is the name of the process that makes steam from salt solution?

..... [1]

(d) What happens to the steam during condensation?

..... [1]

14 Erik and Xavier investigate how high a rubber ball bounces on different surfaces.

They drop a ball onto different surfaces.

(a) What equipment do they use to measure how high the ball bounces?

..... [1]

(b) Eric and Xavier drop the ball from the same height.

What else did they do to make their investigation fair?

..... [1]

(c) Here are their results.

surface	height ball bounces in cm
concrete	74
grass	60
mud	53
tarmac	64

Write down the surfaces in order of how high the ball bounces.

Start with the highest first.

highest

.....

.....

lowest

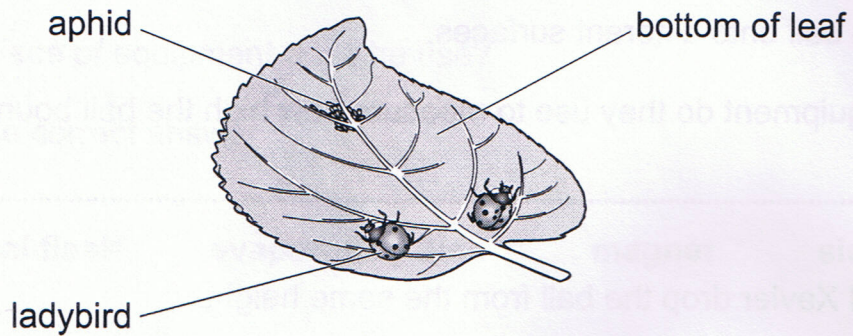
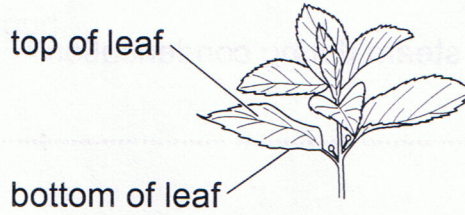
..... [1]



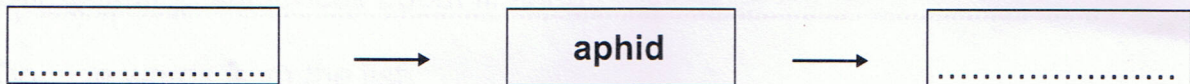


15 Hina and Amina investigate where different animals live on plants.

They look at the leaves on plants.



(a) Complete the food chain for this picture.



[1]

(b) Hina predicts there will be more aphids than ladybirds.

Why does she make this prediction?

..... [1]

(c) Amina predicts there will be more aphids on the bottom of the leaves than the top of the leaves.

Why does she make this prediction?

..... [1]

(d) Some time later Hina notices the leaves do not have ladybirds on them anymore.

Why do you think this has happened?

..... [1]