	Cambridge Primary Checkpoint		i dge Internation dge Primary Che	al Examinations ockpoint		
	CANDIDATE NAME					
	CENTRE NUMBER				CANDIDATE NUMBER	
4 × 6 4	SCIENCE					0846/01
94	Paper 1					October 2015
8						45 minutes
8	Candidates ans	swer on th	ne Question Paper			
3 1 *	Additional Mate	rials:	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 22 printed pages and 2 blank pages.

- grass locust scorpion baboon impala tick bird grass (a) Which is a producer? Circle the correct answer. scorpion locust bird grass [1] (b) What does the impala eat? [1] (c) What is eaten by the scorpion? [1] (d) Circle the word that describes the baboon in the food chain. producer predator prey [1]
- **1** There are food chains in the jungle.

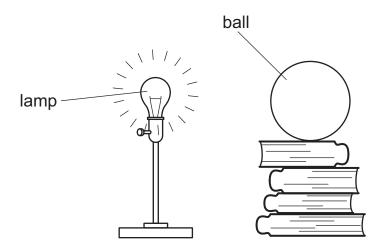
(e) The baboon also eats ticks.





On the picture draw an arrow (\rightarrow) to show that the baboon eats the tick. [1]

2 The teacher makes a model of the Sun and Earth.



The lamp in the model is the Sun.

The ball in the model is the Earth.

(a) Draw the letter **D** on the ball to show where it is day.

Draw the letter ${\bf N}$ on the ball to show where it is night.

(b) The teacher uses the model to show how day becomes night.

Circle what she does to the model.

spins the lamp on its own axis spins the ball on its own axis moves the lamp around the ball moves the ball around the lamp

[1]

[1]

3 Ahmed and Lily are playing a game.

They are trying to identify different objects without looking at them.



They have a bag with an object inside the bag.

(a) They try to guess what the object is using their hands.

What sense are they using?

[1]

(b) Complete the sentence.

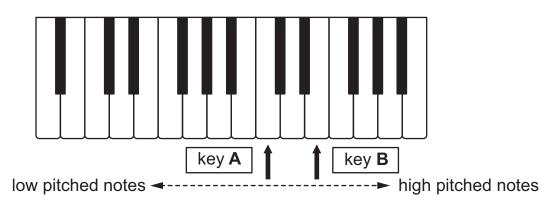
Choose from the words.

	conclusion	prediction	question	result	
	When they guess wha	t the object is this is	called a		[1]
(c)	They are allowed to lo	ok and see if they h	ave guessed corre	ctly.	
	What sense are they u	ising?			
					[1]

- 4 Angelique has a sound meter.
 - (a) Circle the thing she measures.

the mass of an object	the weight of an object	the loudness of a sound	the speed of a sound	
-	-			[1]

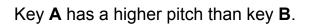
(b) Here is a picture of a piano keyboard.



Angelique pushes key **A** and key **B**.

She uses the same force each time.

Tick (\checkmark) the correct sentence.



Key **B** has a higher pitch than key **A**.

Key **A** is louder than key **B**.

Key **B** is louder than key **A**.

[1]

5 Gasoline can exist as a solid, liquid or a gas.

		process A		process B		
	solid gasoline		liquid gasoline		gasoline vapour	
		process C		process D		
(a) Wh	nat is the name	e of process A	in the diagr	am?		
						[1]
(b) Wh	(b) What is the name of process B in the diagram?					
						[1]
(c) Wł	nat is the name	e of process C	in the diagr	am?		[1]
(d) Wh	nat is the name	e of process D	in the diagr	am?		[4]
						[1]

6 Materials are chosen for certain purposes because of their properties.Glass is used to make windows.

This is because glass is colourless.

Complete each of the following sentences about the uses of materials.

Choose from the list of properties.

attracted to a magnet	not attracted to a magnet
brittle (breaks easily)	flexible (bends easily)
not poisonous	poisonous
insoluble in water	soluble in water
strong	weak
a good electrical conductor	a poor electrical conductor

(a) This bridge is made from steel.



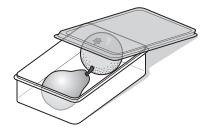
This is because steel is _____. [1]

(b) This bar magnet is made from steel.



This is because steel is _____. [1]

(c) This food box is made of plastic.



This is because plastic is	· · · · · · · · · · · · · · · · · · ·	[1]
----------------------------	---------------------------------------	----	---

(d) This T-shirt is made from cotton.



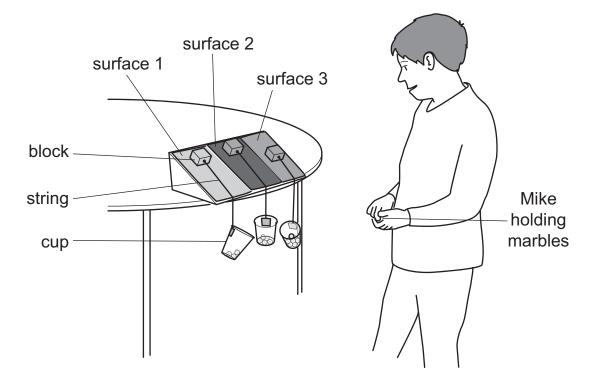
This is because cotton is	[1]

(e) This cable is made using copper wire.



This is because copper is [1]

7 Mike investigates friction.



- he puts a block on three different surfaces
- he sticks a piece of string and a plastic cup to each block
- he puts one marble in each cup
- he adds more marbles until the blocks move.

- (a) Here are Mike's results.
 - surface 1 = 5 marbles surface 2 = 6 marbles
 - surface 3 = 2 marbles

Complete the table of his results.

surface	
1	
	6

(b) Complete the sentences.

Choose from the following.

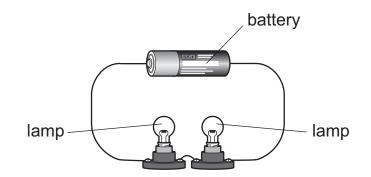
1 2 3 5 6

The surface with the **most** friction is surface ______.

The sm	oothest surface is surface		because	
it takes		marbles to move the block.		[2]

[2]

8 Mia makes a series circuit.



Mia makes different series circuits.

She uses the same size batteries.

She uses the same size lamps.

(a) Complete the table.

Choose from the following words.

dim	normal	bright
-----	--------	--------

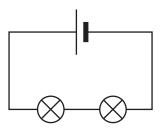
number of batteries	number of lamps	brightness of lamps
1	2	normal
2	2	
1	3	

[2]

(b) Mia draws a circuit diagram.

It has 1 battery and 2 lamps.

circuit diagram

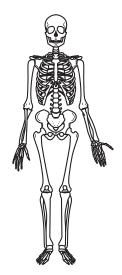


Draw a circuit diagram for 1 battery and 3 lamps.

circuit diagram

[1]

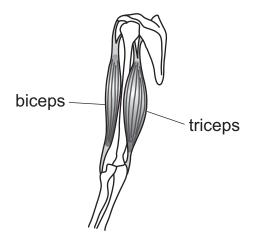
9 Humans have a skeleton inside their body.



(a) Complete the sentences.

The	 protects the brain.	[1]
The	 protects the lungs.	[1]

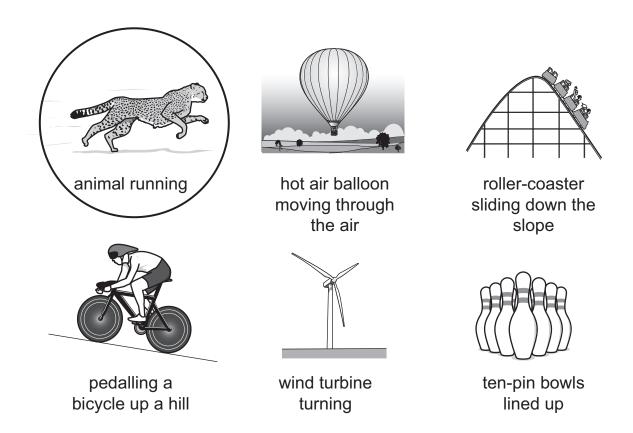
(b) Muscles are used to make bones move.



What happens to your biceps muscle when you bend your arm?

[1	1	
 ۲.	1	

10 Here are some pictures.



(a) Circle the pictures that have energy because they are moving.

The first one has been done for you.

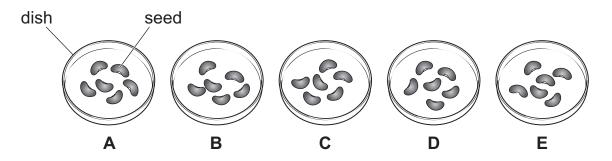
[2]

(b) Describe how the animal in the first picture can increase its movement energy.

[1]

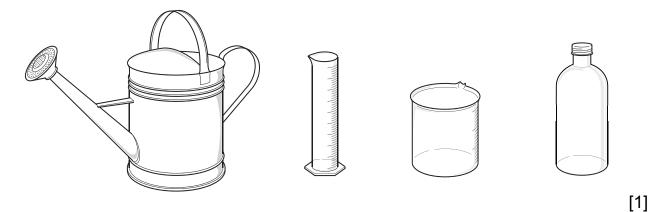
11 Jamila and Safia investigate the germination of seeds.

They put six seeds in each dish.



(a) Safia pours the same volume of water into each dish.

Circle the apparatus she uses to measure the volume accurately.



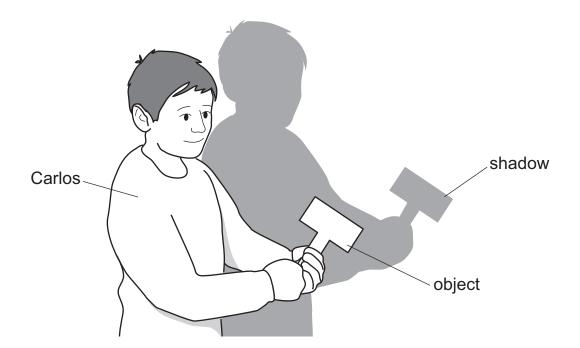
(b) Jamila puts the dishes in areas with different temperatures.

She measures the temperature of each dish.

What equipment does she use?

Γ1	11	
11	. 1	
-	-	•

12 Carlos uses different materials to investigate shadows.



(a) Look at the shadow.

Circle the correct description of the object.

the object is opaque

the object is transparent

the object is transparent and opaque

[1]

(b) Carlos moves closer to the source of light.

What happens to the size of the shadow?

Circle the correct answer.

decreases

increases

stays the same

The intensity of the light is increased.

What happens to the size of the shadow?

Circle the correct answer.

decreases

increases

stays the same

13 Humans can have positive and negative effects on the environment.

A new road is being built near your school.

Complete the table to show if the effects are positive or negative.

reason	positive? (tick イ)	negative? (tick ✔)
creates jobs		
removes trees		
fills in a pond		
		[2

This is what she does in her first experiment.

- adds 100 cm³ of water to a beaker
- adds one sugar cube to the water
- stirs the water and sugar cube with a glass rod
- measures the time it takes for the sugar cube to dissolve.
- (a) What piece of equipment does she use to measure the time?

[1]

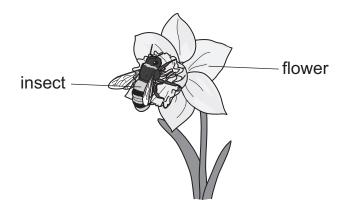
(b) In her second experiment she wants to use two sugar cubes instead of one.

She wants to do a fair test.

What volume of water should she use?

...... cm³ [1]

15 Many plants have flowers.



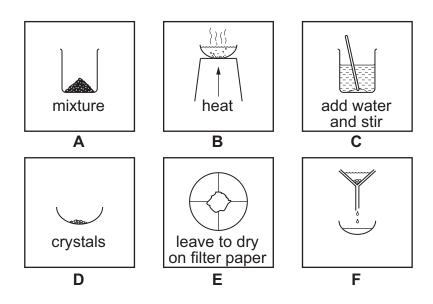
(a) Which two parts of the flower attract insects?

Circle the **two** correct answers.

	carpel	nectary	petal	sepal	stigma	[1]
(b) Complete the se	entence.				
	Pollen fertilises	the ovum. This	s produces			[1]

The diagram shows the steps she uses.

They are not in the correct order.



(a) Put the steps in the correct order.

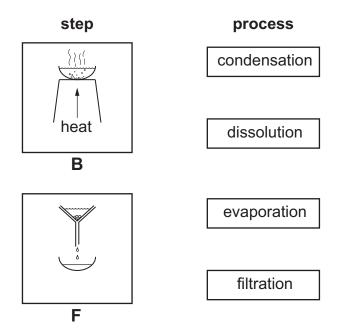
Two have been done for you.

(b) Which solid substance is on the filter paper in step E?

.....[1]

(c) Steps **B** and **F** are processes.

Draw a line between the **step** and the **process** that happens.



[2]

BLANK PAGE

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.

University of 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.