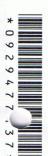


UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS Cambridge Primary Checkpoint

CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER



SCIENCE

0846/02

Paper 2

October 2012

45 minutes

Candidates answer on the Question Paper.

Additional Materials:

Pen

Calculator

Pencil

Ruler

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.

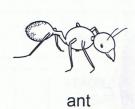
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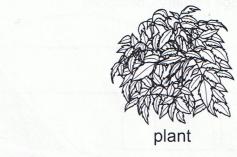
This document consists of 16 printed pages.



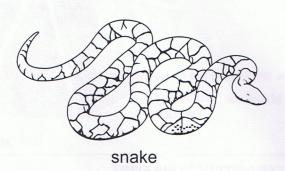


1 The pictures show some living things found in a desert.









(a) Draw arrows (\rightarrow) between the pictures to make a food chain.

[2]

(b) Name the producer in this food chain.

[1]

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(c) The producer uses energy.

Where does it get its energy from?

Tick (✓) one box.

food	9 000
rain	
soil	
Sun	
wind	
	-

[1]

(d) Name one predator in this food chain.

______[1]

(e) Use one word to complete the sentence.

plant predator prey producer

An animal being hunted by another animal is the [1]



2 Felipe investigates four water samples.

He measures the melting point and the boiling point of each water sample. Here are his results.

water sample	melting point in °C	boiling point in °C
Α	-10	108
В	0	100
С	-2	102
D	-5	104

(a)	Water sample A is salt solution.	
	Which water sample is pure water?	
	Use one word to complete that sentence	
	Explain how you could tell from the information in the table.	
		[2]
(b)	Complete the sentence about melting.	
	Choose words from the list.	
	solid f liquid gas	
	During melting a changes into a	[1]

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3



(c) Complete the sentence about boiling.

Choose words from the list.

		solid	liquid	gas	
[During boiling a		changes into a		[1]
For	thousands of ye	ars people have s	tudied the moveme	ent of the Earth and	Moon.
(a)	Which of the foll	owing takes 24 ho	urs?		
	Tick (✓) one box	K .			
	One full rotation	of the Earth on its	axis		
	One orbit of the	Earth around the S	Sun		
	One orbit of the	Moon around the I	Earth		
				no restance en A	[1]
(b)	The shadow on a	a sundial can be u	sed to tell the time	during the day.	

(k



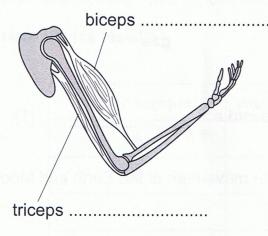
What two things change about the shadow during the day?

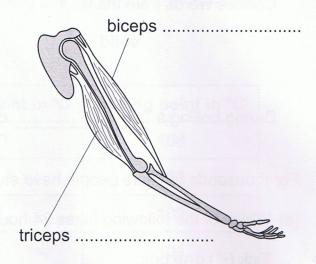
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4 Class four are looking at a diagram of the human arm.





(a) What are biceps and triceps?

LA.
Π

(b) To make the arm move the biceps and triceps either relax or contract.

Write **contract** or **relax** after biceps and triceps to say what is happening in each diagram.

[2]

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5 We cannot always see the full Moon in a cloudless night sky.

(a) What is the reason for this? Complete the sentence.

We only see the part of the Moon that _____ light from the _____ [1]

(b) At night time, we cannot see the Sun in the sky.

What causes this to happen?

Tick (✓) one box.

The Earth spins on its axis.

The Sun moves round the Earth.

The Moon blocks the Sun.

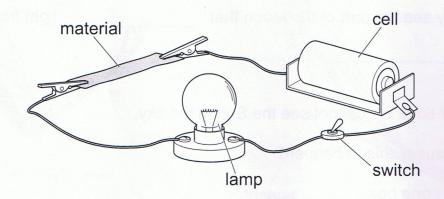
The Earth moves round the Sun.

[1]



6 Tomas and Jakub investigate electrical conductors.

They put different materials in an electric circuit.



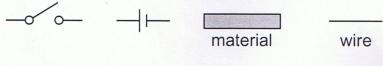
(a) They keep the length of the material the same each time.

Why do they do this?

______[1]

(b) Draw the circuit diagram for this experiment.

Choose the correct symbols from those shown.





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(c) Tomas and Jakub measure the brightness of the lamp for each material they test.

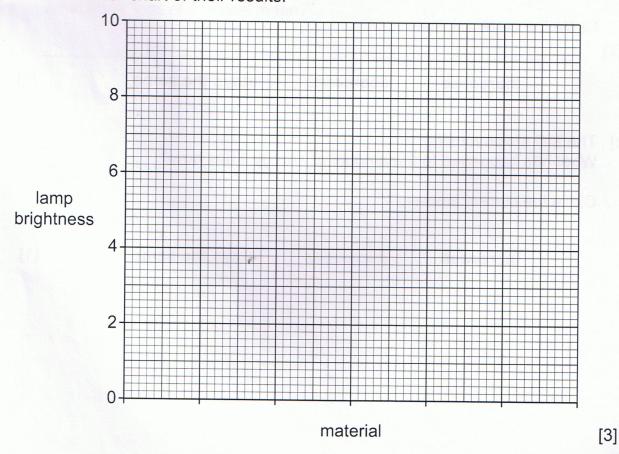
Here is their scale for lamp brightness.

					100					
0	1	2	3	4	5	6	7	8	9	10
no ligh									brigh	t light

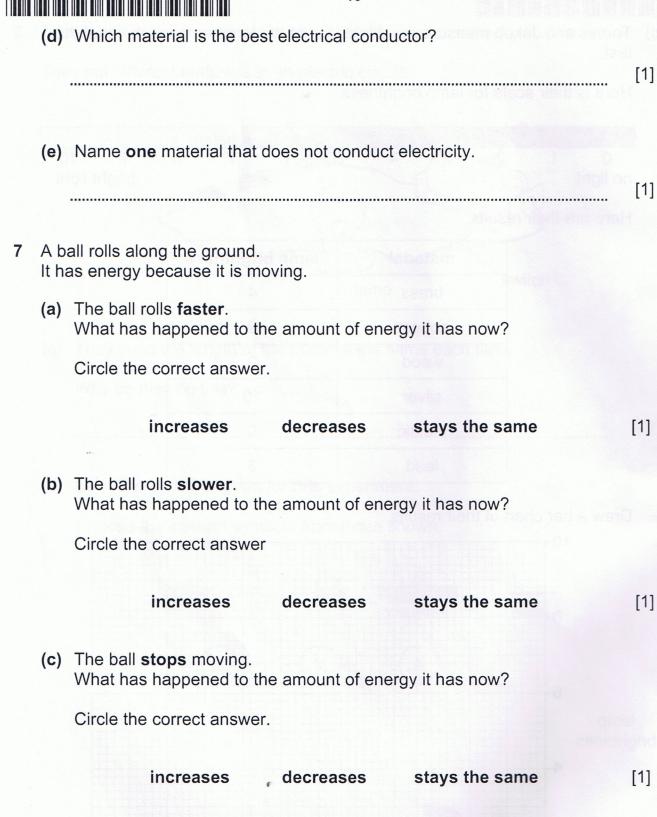
Here are their results.

material	lamp brightness		
brass	4		
copper	9		
wood	0		
silver	10		
plastic	0		
lead	3		

Draw a bar chart of their results.



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

(a)	From the list choose three things that are positive effect	ets.	
	Tick (✓) three boxes.		
	protecting habitats		
	overfishing		
	removing trees		
	recycling		
	not littering		[2]
(b)	Another negative effect is 'loss of species'.		
	What does 'loss of species' mean?		

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[1]



9 (a) Draw a line to connect the word and the explanation.

	word	explanation	
	soluble	a solid that does not dissolve in a liquid	
	insoluble	a solid that dissolves in a liquid	
	solvent	a liquid that dissolves a solid	
		[2	2]
(b)	Complete the sentence.		
	Some solids dissolve in v	water to form a [1]
	ok at these pictures of ap		
	bar magnet A	filter paper in funnel water B C	
(a)	Which apparatus would y	you use to separate sand from water?	
		[1]
(b)	Which apparatus would y	ou use to separate a mixture of sand and iron filir	ngs
		[1]

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11 A magnet is moved close to four objects.

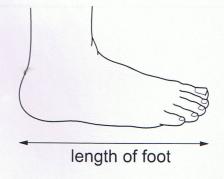
Tick (\checkmark) the correct boxes to show what happens.

obje	ect	attract	repel	no effect
plastic straw	N S magnet			
N S magnet	S N magnet	load .	e bloom en barr	
iron nail	N S magnet			
candle	N S magnet	olevsol No raili Tab	rian.	

12 The foot bones of the skeleton grow as humans grow.

- (a) Why do foot bones need to grow as humans get older?

 [1]
- (b) The length of a foot can be measured.



What piece of apparatus do you use to measure the length of a foot?

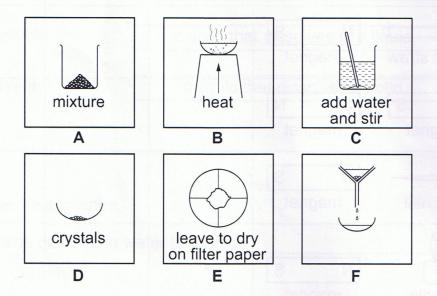
[3]



13 Minahil wants to separate a mixture of salt and sand.

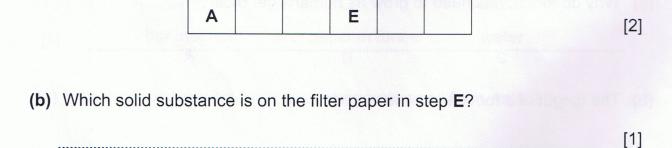
The diagram shows the steps she uses.

They are not in the correct order.



(a) Put the steps in the correct order.

Two have been done for you.



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(c) Steps B and F are processes.

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

step process condensation dissolution evaporation

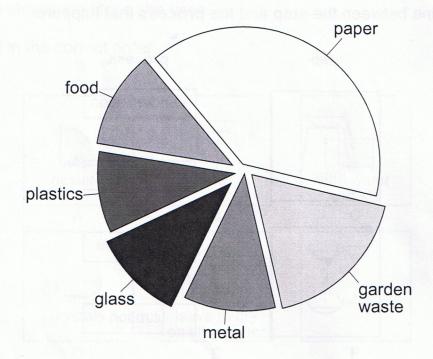
filtration

[2]

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14 The pie chart shows some of the waste produced by humans.



Use the pie chart to answer the questions.

(a)	The largest amount of waste produced is	[1]
(b)	Some of these waste products can be decomposed.	
	Name two.	
	and	[1]
(c)	Suggest how the amount of waste glass can be reduced.	
		[1]

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