Cambridge Primary Checkpoint	Cambridge International Cambridge Primary Checkpo		
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
SCIENCE			0846/02
Paper 2		For Ex	xamination from 2014
SPECIMEN PA	PER		45 minutes
Candidates ans	swer on the Question Paper.		
Additional Mate	erials: 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.

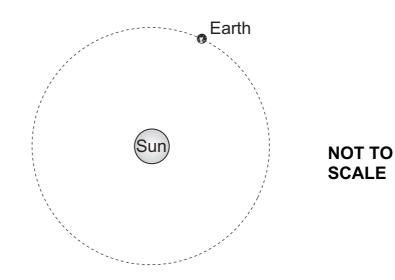
Answer **all** questions.

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 **16** printed pages.

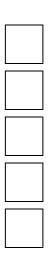


1 The diagram shows the Sun and Earth.



Tick (\checkmark) the **two** correct sentences.

The Sun takes 1 year to orbit the Earth. The Earth takes 1 year to orbit the Sun. The Earth takes 24 hours to orbit the Sun. The Earth spins on its axis once every 24 hours. The Earth spins on its axis once every year.



[2]

2 (a) Some things are living things.

Others have never lived.

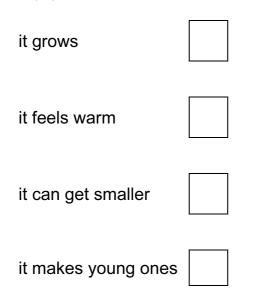
Write down each word in the correct box in the table.

kangaroo rat rock sand seaweed

living things	things that have never lived

(b) Which of the following observations would help to identify a living thing?

Tick (\checkmark) the **two** correct answers.



[1]

[1]

3 Here are some substances that are solids, liquids or gases.

butter chocolate ice orange juice steam water

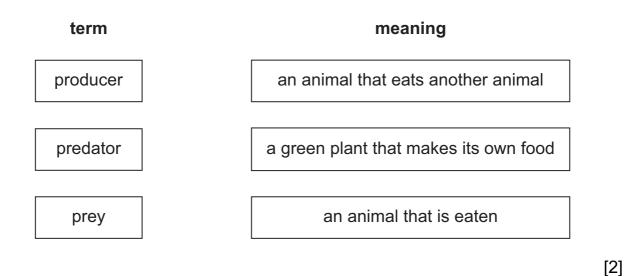
solid	liquid	gas	

- (a) Write down the substances in the correct column, **solid**, **liquid** or **gas**. [1]
- (b) When ice is warmed, it changes.

Write down the name of this process.

(c) If water was cooled to 0°C it changes.
Write down the name of this process.
(d) What will happen to water if it boils?

4 (a) Draw a line to connect the **term** to the correct **meaning**.



(b) What is a consumer?

Circle the correct answer.

a plant that eats another plant

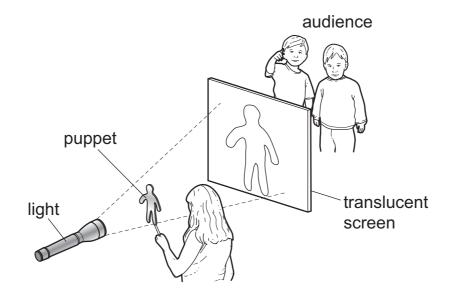
a plant that eats an animal

an animal that eats a plant

a plant that eats plants and animals

[1]

5 Here is a diagram of a puppet show.

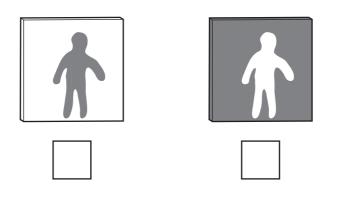


- (a) Complete this sentence.The puppet makes an image called a ______on the screen. [1]
- (b) What must the girl do to the puppet to make this image smaller?

	••••
 	1]

(c) What do the audience see?

Tick (✓) one box.



[1]

(d) What would the audience see if the screen were opaque?

[1]	
 	•

liquid	boiling point in °C
А	105
В	78
С	100
D	96
E	1064

6 The table shows the boiling points of some liquids.

(a)	Which liquid has the lowest boiling point?	

		[1]
(b)	Which liquid is pure water?	
		[1]
(c)	Complete the sentences about boiling and freezing.	
	During boiling liquid changes into a	
	During freezing liquid changes into a	[2]

7 Suzy is growing sunflower seeds.

She thinks that seeds will grow better in a bigger pot

- she puts one seed into each of four different sized pots
- she puts them in the same warm place and waters them regularly
- after four days the seeds begin to grow
- she measures the height of the shoot every day.

What does Suzy do to make it a fair test?

Tick (\checkmark) one box.

measure the shoots	
put the pots in the same place	

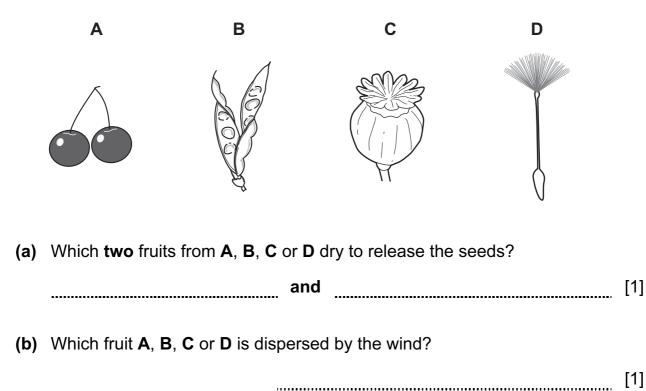
measures each shoot on a different day

uses four different pots

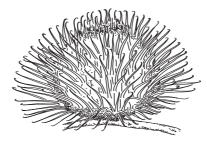
[1]

8 Seeds are dispersed from plants so they have a better chance to grow.Here are some diagrams of fruits containing seeds.

Use these examples to answer the questions.



(c) This diagram shows another fruit.



Describe how this fruit is dispersed.

[2]

- 9 Maria is investigating what happens when indigestion tablets are added to water.
 - she measures 100 cm³ of water and puts this into a beaker
 - she adds a 1 g indigestion tablet to the water
 - she measures the change in temperature of the water.

Draw a line from each **measurement** to the piece of **equipment** needed to make the measurement.

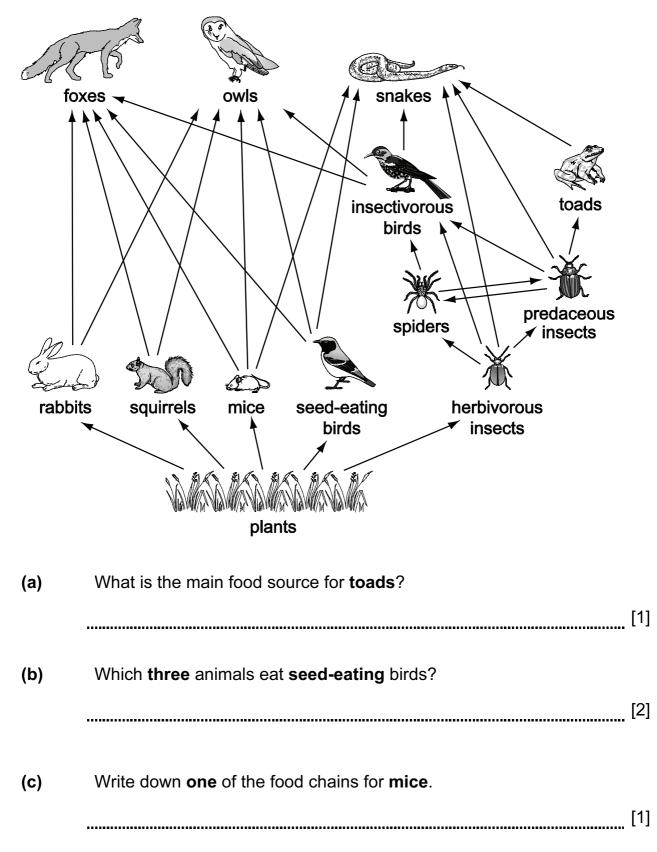
measurement		equipment
		ruler
mass of tablet		thermometer
temperature of the water		beaker
volume of water		measuring cylinder

[3]

balance

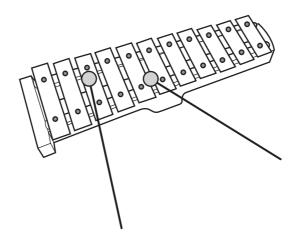
10 Animals survive by living in food chains.

Look at the food web below.



11 A music studio is next to a quiet room in a library.

Erik practises the glockenspiel in the studio.



(a) Erik strikes the glockenspiel with a hammer.

What causes the sound?

[1]

(b) Erik makes a high pitched sound on the glockenspiel?

What does Erik do to make the pitch higher?

[1]

(c) Sometimes the sounds are too loud in the library and Aravinder complains.

He collects data, using a decibel meter, and records the loudness of the sound in decibels (dB).

time	10:00	11:00	12:00	13:00	14:00	15:00
decibel meter reading in dB	22	24	67	87	43	22

At what time is the sound from the studio the loudest?

.....[1]

		15			
	(d)	Describe what happens to the sound level between 10:00 and 15:00.	[1]		
	(e)	Aravinder suggests the wall between the library and the studio is lined with foam.			
		Why is the foam useful?			
			[1]		
12		a puts 2g of chalk and 3g of sugar into 30cm ³ of water and stirs the ture.			
	She	he then filters the mixture.			
	Aw	hite solid is left on the filter paper.			
	She	dries this solid and measures the mass of the solid.			
	(a)	What is the white solid left on the filter paper?			
			[1]		
	(b)	Write down the name of the liquid that passes through the filter paper.	[1]		
	(c)	What is the mass of the solid that is left on the filter paper after Nara dries it?	r.1		

- **13** Blood is pumped to and from parts of the body.
 - (a) Which two of these are correct for blood flow from the pump?

Tick (✓) **two** boxes.

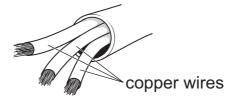
	from		to		
	the body		the heart		
	the lungs		the body		
	the heart		the lungs		
	the heart		the body		[2]
(b)	Name two substances the body.	that the blood carrie	es to be used	by the cells in	
	1				
	2				[2]
(c)	Name one substance or removed from the body	-	to the lungs s	o it can be	
					[1]

14 Some of the properties of copper are shown in the table.

property		
good conductor of electricity		
good conductor of heat		
high boiling point		
high melting point		
hard		
shiny		

(a) Why is copper used to make electrical wires?

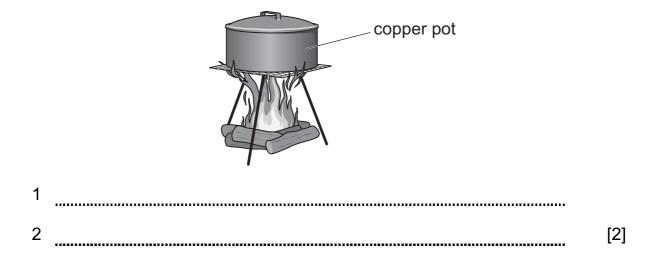
Choose from the table.



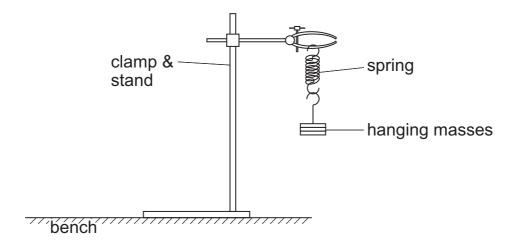
.....[1]

(b) Why is copper used to make cooking pots and pans?

Choose the best two reasons from the table.



15 Joshi is investigating how much a spring stretches when different masses are added.



(a) What could he use to measure how much the spring stretches?

[1]

(b) Before his experiment Joshi thinks that the spring will stretch more if he adds **more** masses to the spring.

What type of statement is this?

Circle the correct answer.

conclusionmeasurementmethodprediction[1](c)When doing his investigation what must Joshi do to keep himself safe?[1]

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