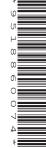


Cambridge Primary Progression Test

Science paper 2

Stage 6



45 minutes

Name

Additional materials: Ruler

READ THESE INSTRUCTIONS FIRST

Answer all questions in the spaces provided on the question paper.

You should show all your working on the question paper.

The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 50.

For Teac	her's Use
Page	Mark
1	
2	
3	
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5	
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8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
Total	

1 Each body system in humans contains a major organ.

For Teacher's Use

Complete the table to show the major organs in some body systems.

One has been done for you.

body system	major organ
excretory	kidneys
circulatory	
respiratory	
nervous	
digestive	

[4]

2	(a)	Yuri adds	different	solids	to	water
_	(a)	Turr auus	unierent	SUIIUS	ιΟ	water

He stirs them for one minute.

Here are his results.

Complete the table.

One has been done for you.

name of solid	results after one minute	soluble or insoluble
clay	I WITHHITH	
chalk	I Mallanana Mariana Ma	insoluble
salt	I PA(II) II	
copper	Indul Inthinky	

[2]

(b) Yuri adds sugar to water.

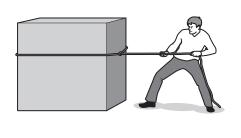
He stirs the mixture for one minute.

What does he see?

.....[1]

3 On each picture draw an arrow to show the direction of the friction force.



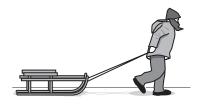








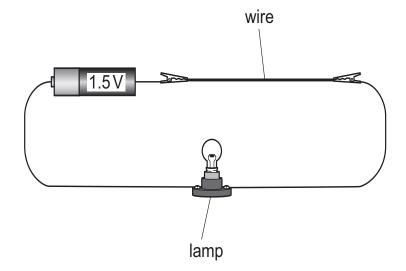




[3]

4 Jamila makes an electrical circuit.

For Teacher's Use



She uses wires made of different materials.

(a)	Each wire is the same length and the same thickness.
	Why does she make sure each wire is the same size?
	[1]
(b)	What does she use to measure the length of the wire?
	[1]
(c)	What will happen?
	Complete the sentence.

If the wire is a good conductor the lamp will be[1]

5 Scientific changes are either reversible or irreversible.

For Teacher's Use

For each change decide if it is reversible **or** irreversible.

Tick (\checkmark) the correct boxes.

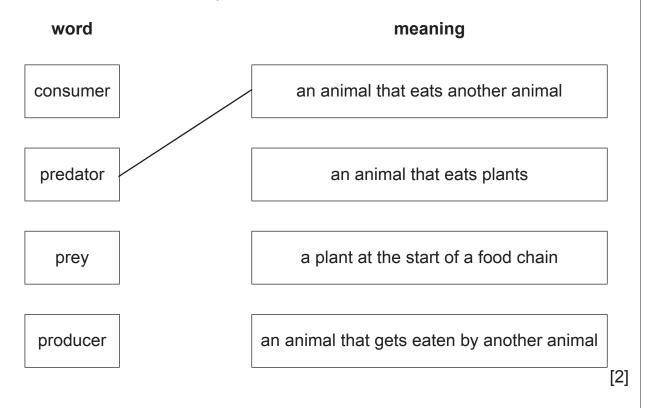
change	reversible	irreversible
baking bread		
condensing water vapour		
boiling water		
burning wood		
digesting food		
rusting of iron		
filtering sand and water		
dissolving salt		

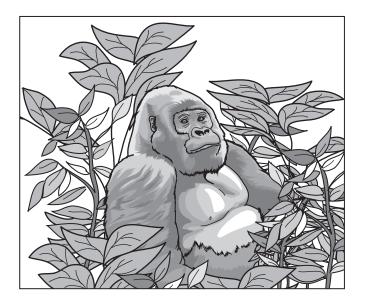
[4]

6 Draw a line from each word to its meaning.

For Teacher's Use

One has been done for you.





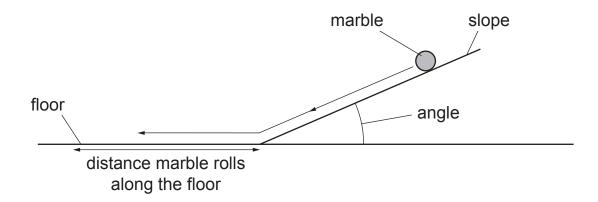
` '	Why does the mountain gorilla need to be protected?
	[1]
(b)	Write down two things humans can do to protect the mountain gorilla.
	1
	2
	[2]

[2]

8 Mike and Lily roll marbles down a slope.

They measure the distance the marbles roll along the floor.

They change the angle of the slope and see how the distance changes.



Tick (\checkmark) the **two** boxes that make this investigation a fair test.

keep the angle of the slope the same	
repeat each test five times	
start the marble from the same place each time	
use the same marble	
wear safety spectacles	
write the results in a table	

9 The table shows the properties of some solids.

I	For
I	Teacher's
I	Use

solid	does it dissolve in water?	is it attracted to a magnet?
steel powder	no	yes
salt	yes	no
copper pieces	no	no
chalk	no	no

(a) Chen wants to separate a mixture of salt and chalk.

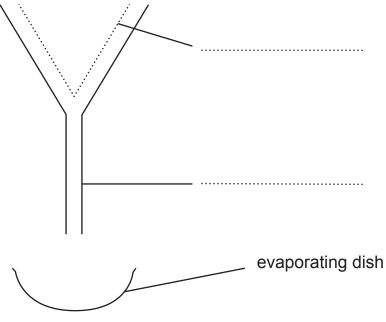
He adds water to the mixture and stirs.

He then filters the mixture.

Explain why this separates the mixture of salt and chalk.
[2]

(b) Here is a diagram of the apparatus Chen uses.

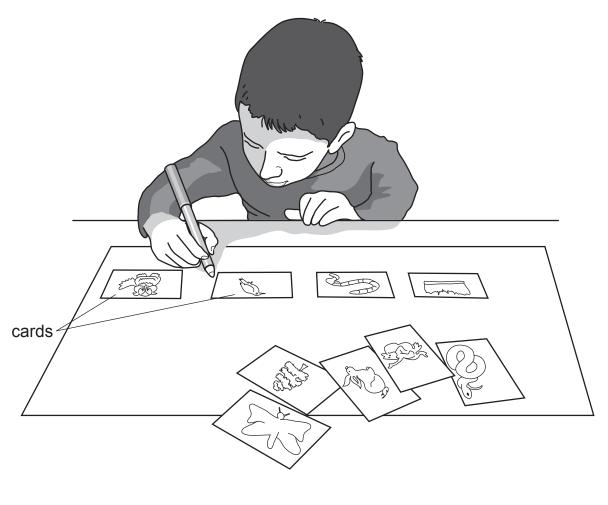
Complete the labels on the diagram.



(c)	Priya wants to separate a mixture of copper pieces and steel powder.
	She can use a sieve to separate this mixture but cannot use filtering.
	Complete the sentences to explain why.
	A sieve can be used to separate copper pieces and steel powder
	because
	Filtering cannot be used to separate copper pieces and steel powder
	because
	[2]

10 Oliver makes a food chain.

For Teacher's Use



(a) What does he draw between the cards?

[1]

(b) What does a food chain show?



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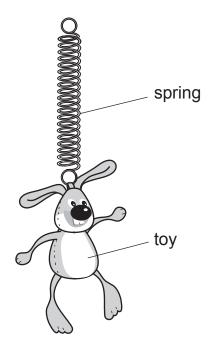
^		/
	M	

Where does the plant get its energy from?	?
---	---

12 Ahmed is bouncing a toy animal on a spring.

For Teacher's Use

He investigates how the toy bounces up and down.



(a) Ahmed has some ideas.

Which of the following ideas are true?

Write down true or false in the box next to each idea.

idea	true or false
I can pull down on the toy gently.	
If I let go then the toy will not bounce up very high.	
I think that the toy will stop bouncing.	
This is because of the force of friction.	

[1]

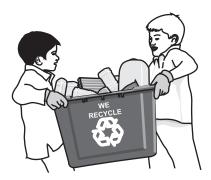
b)	The time for one bounce is very short.	For Teacher's
	Ahmed wants to measure this time.	Use
	What does he do?	
	Tick (✓) the box next to the correct answer.	
	Measure the time taken for	
	20 bounces and then divide by 10	
	10 bounces and then divide by 20	
	20 bounces and then divide by 20	
	• 5 bounces and then divide by 10	
	• 10 bounces and then divide by 5. [1]	
	ניו	

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13 Carlos and Pierre want to take care of the environment.

For Teacher's Use

They collect all the materials that can be recycled in their home.



Carlos measures the **mass** of material they recycle each week.

He writes his results in a table.

week number	mass of material recycled in
1	2.1
2	2.7
3	3.6
4	3.8
5	
6	5.1
7	5.2

(a) The unit of mass is not in the table.	
	What is the unit of mass?
	[1]
(b)	The weight of the material is different to the mass.
	Weight is a force.
	What is the unit of force?
	[1]

[1]

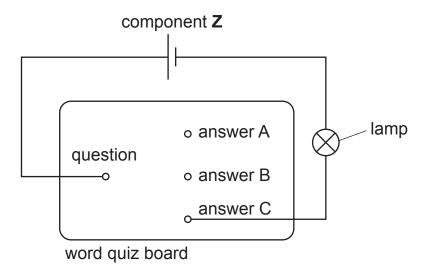
(c)	(c) Pierre says		
	'The mass of material we recycle each week increases.'		
	Why do they collect more material to recycle each week?		
	Write down a reason for this increase.		
	[1]		
(d)	Carlos forgot to write down the mass for week 5 . Use the table to predict the mass of material they recycled in week 5 .		

I predict that they recycled a mass of in week 5.

14 Youssef makes an electrical quiz board.

For Teacher's Use

Here is a diagram of his electrical quiz board with its circuit.



A connection is made from the question to an answer.

If the answer is correct the lamp lights.

(a)	What is the name of component Z ?	
-----	--	--

.....[1]

(b) Youssef makes the connection from the question to the answer.

Which materials will work?

Circle the three materials.

aluminium

copper

nylon

rubber

steel

string

[2]

(c) Look at the diagram of this electrical quiz board.

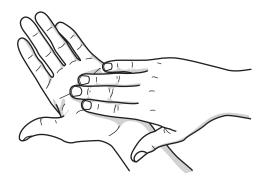
Which is the correct answer?

.....[1]

15 Skin is the largest organ of the body.

For Teacher's Use

Mia looks at the skin on her hands.



Describe three functions of the skin.

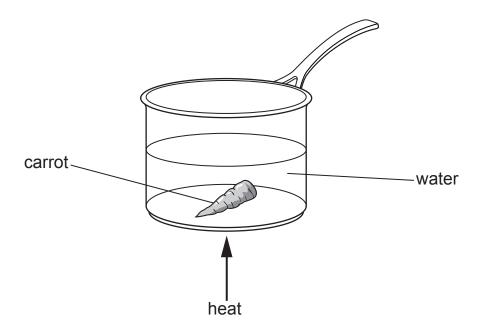
1	
2	
3	
	[3]

16 Carrots can be cooked by heating in water.

For Teacher's Use

Cooking is an irreversible process.

Hassan investigates the time it takes to cook carrots.



He does five experiments.

Each time he uses a different temperature of water.

Here are Hassan's results.

temperature of water in °C	time needed to cook a carrot in mins
75	90
80	60
90	30
95	22
100	15

(a)	Name the apparatus he uses to measure the temperature of the water.
	[1]
	[']

(b)	What does Hassan do to make his investigation a fair test?
	[1]
(c)	Describe the pattern in the results.
	As the temperature of the water increases
(d)	Predict the time it takes to cook a carrot in water at a temperature of 70 °C.
	mins [1]

22

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