

Cambridge International Examinations

Cambridge Primary Checkpoint

Спескроіпт			
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
SCIENCE			0846/01
Paper 1			October 2018
			45 minutes
Candidates answer or	the Question Paper.		
Additional Materials:	Pen Pencil	Calculator	

READ THESE INSTRUCTIONS FIRST

Ruler

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.

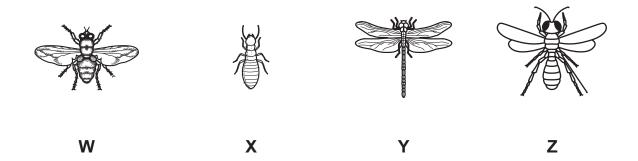
The number of marks is given in brackets [] at the end of each question or part question.

You should show all your working in the booklet.

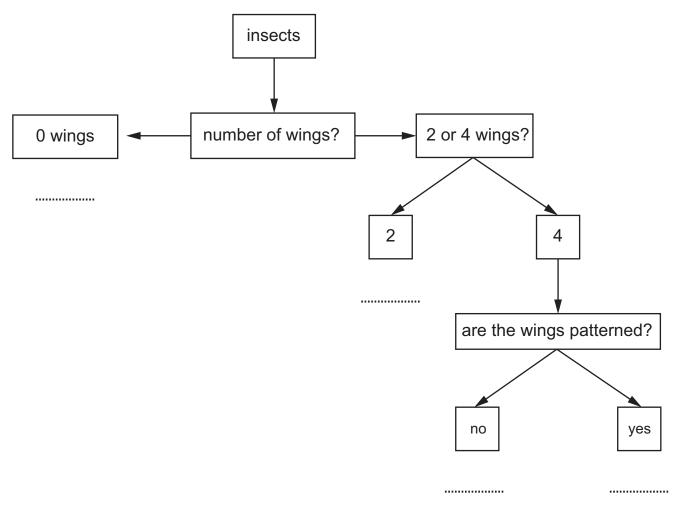
The total number of marks for this paper is 50.



- 1 Oliver is learning to organise animals using keys.
 - (a) He organises four insects W, X, Y and Z.



Put the letters W, X, Y and Z in the correct place on the key.



(b) Look at the picture of a frog and a newt.



Oliver wants to ask a question to separate them into different groups.

Which question does he use?

Circle the correct answer.

Does it have an eye?

Does it have four legs?

Does it have a mouth?

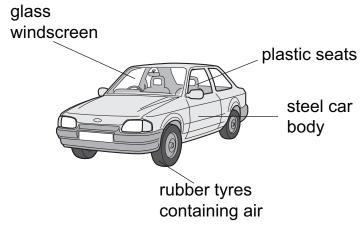
Does it have a patterned body?

Does it have a tail?

[1]

2 Safia owns a motor car.

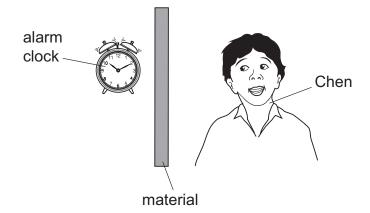
The diagram shows some of the materials used to make her car.



		[1]
	Explain your answer.	
	irreversible reversible	
	Circle the correct answer.	
	What type of change is the burning of gasoline?	
(d)	The car engine burns gasoline.	
		[1]
	Give one other reason why steel is suitable to make the car body.	
(c)	Steel is used to make the car body because it will not rust and is quite cheap	ρ.
		ניו
(b)	Give one reason why glass is used to make the car windscreen.	[1]
		[1]
(a)	Which labelled material in the diagram is attracted to a magnet?	

	and	[2]
	What are the other two stages?	
	• germination.	
	seed dispersal	
	seed production	
	Three of these stages are	
4	There are five stages in the lifecycle of a flowering plant.	
		[2]
	reason 2	
	reason 1	
	Write two reasons why they do this.	
	They take the litter to a recycling centre.	
	Class 6 do not put this litter in the bin.	
3	Class 6 go to their local park to pick up litter.	

5 Chen investigates sound.



Chen measures the volume of sound the alarm clock makes.

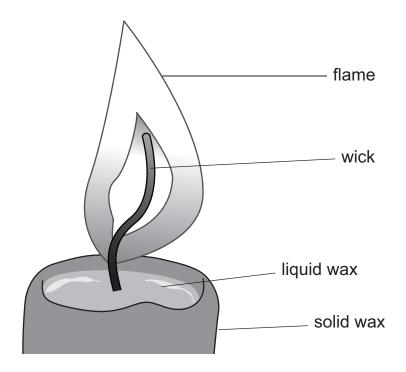
He puts different materials between him and the alarm clock.

(a)	What apparatus	does Chen u	ise to measur	e the volume of	f sound?	
						[1]
(b)	Complete the se	entence.				
	The volume of s	sound is meas	sured in		·	[1]
	Choose from the	ese words.				
	decibels	hours	metres	newtons	seconds	
(c)	Chen's alarm cl	ock makes a	high sound.			
	Complete the se	entence.				
	A high sound ar	nd a low soun	d are differen	t in	·	[1]
	Choose from the	ese words.				
	length	loudness	pitch	softness	volume	

6	Priya is investigating seed germination.	
	She has four dishes.	
	She adds some seeds to each dish.	
	Look at the dishes in the pictures.	
	A seeds with light and water	B seeds in a dark cupboard
	and water	with water
	seeds with light and no water	seeds in a dark cupboard and no water
	(a) Priya thinks that only the seeds in dish A	will germinate.
	Is she correct?	
	Explain your answer.	
		[2
	(b) Priya repeats the investigation in the winter	er.
	The seeds do not germinate.	
	Explain why.	

[1]

7 A candle is made from a solid called wax.



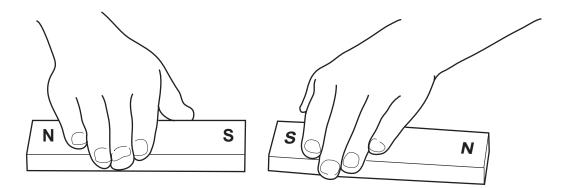
(a)	At the top of the candle solid wax changes into liquid wax.	
	What is the name of this process?	
		[1]
(b)	Solid wax changing into liquid wax is a reversible change.	
	Explain why.	
		[1]
(c)	Some of the liquid wax changes into a gas .	

[1]

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What is the name of this process?

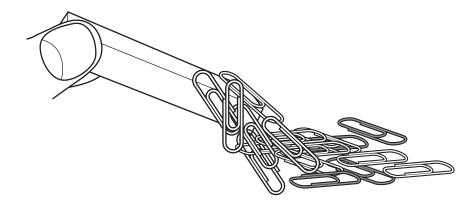
8 Blessy puts two magnets near each other.



The magnets **repel** each other.

		[1]
	What does she do?	
(a)	Blessy wants to make these magnets attract each other.	

(b) Blessy uses one of the magnets to attract paper clips.



This magnet only attracts five of the paper clips.

The other paper clips have **not** been attracted.

Give **two** reasons why these paper clips are **not** attracted to the magnet.

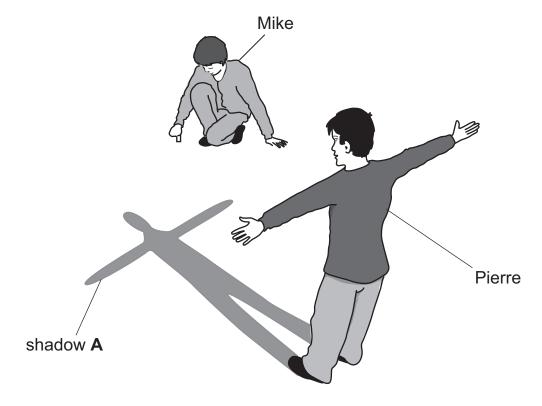
reason 1

reason 2

[2]

9 Pierre and Mike investigate shadows.

Pierre makes a shadow. Mike draws around the shadow.

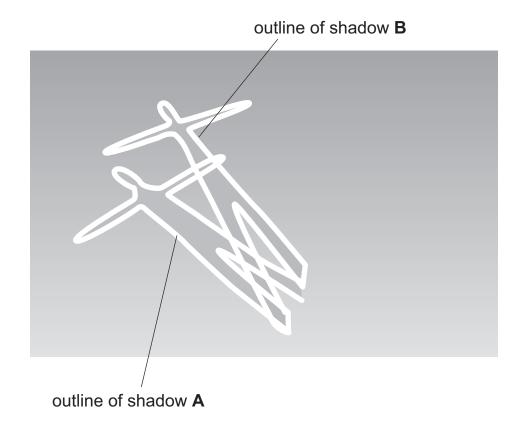


(a) Explain why there is a shadow.

[1]

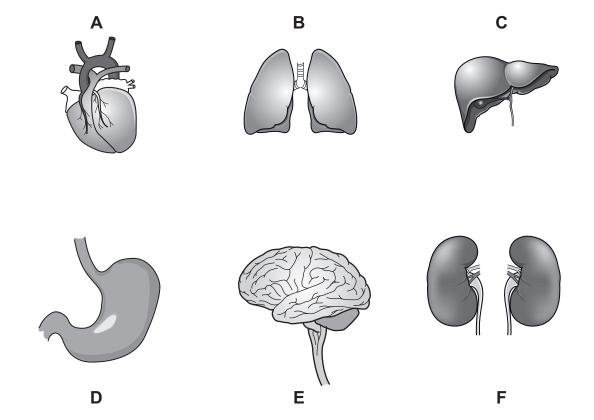
Pierre makes another shadow. Mike draws around this shadow.

Here are their results.



(D)	Describe two di	interences between snadow A and snadow B.	
	difference 1		
	difference 2		
			[2
(c)	Why is there a c	difference between shadow A and shadow B ?	·
			[1

10 Rajiv draws some organs found in the human body.



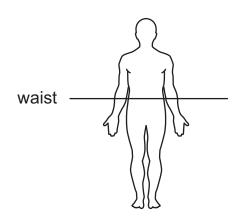
(a) Write the name of each organ.

One has been done for you.

Α	
В	
С	liver
D	
Ε	
F	

[2]

(b) Which organ is found below the waist and near the back of the body?

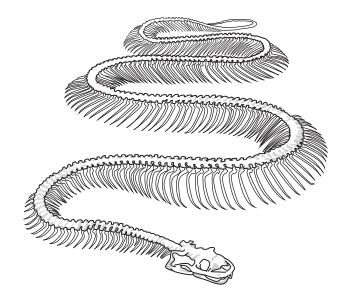


Circle the correct answer.

В D Ε

[1]

11 Snakes have skeletons.



Write **two** ways the skeleton helps the snake.

1 _____

[2]

12 The table shows the properties of some substances.

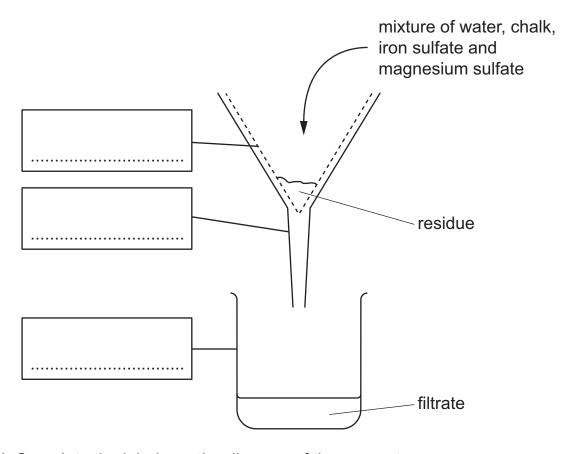
substance	state at room temperature	colour	does the substance dissolve in water?
chalk	solid	white	no
iron sulfate	solid	green	yes
magnesium sulfate	solid	white	yes

Hassan has a mixture of chalk, iron sulfate and magnesium sulfate.

He wants to separate the mixture.

He adds the mixture to water and stirs it thoroughly.

He then filters this mixture using this apparatus.



(a) Complete the labels on the diagram of the apparatus.

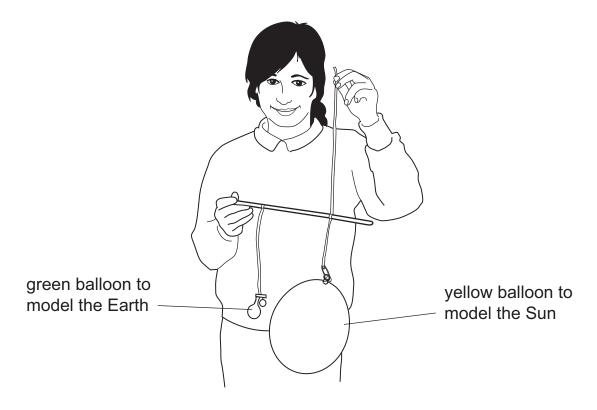
[3]

(b) Which substance is found in the residue?

[1]

(c)	Which substances are found in the filtrate ?	
		[1]

13 Mia makes a model of the Sun and the Earth.



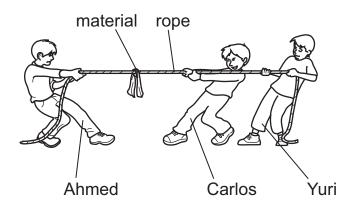
Mia wants to move the yellow and green balloons.

She wants to model what happens to the Sun and the Earth.

Describe what she does to the balloons.

lo.
[4]

14 Ahmed, Carlos and Yuri investigate forces.



A piece of material is tied to the middle of the rope.

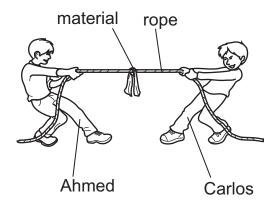
Ahmed, Carlos and Yuri all pull the rope with the same force.

(a) Which direction will the material move?

Circle the correct answer.



(b) The boys repeat the investigation.



Only Ahmed and Carlos pull the rope.

They pull the rope with the **same** force.

Which direction will the material move?

Circle the correct answer.



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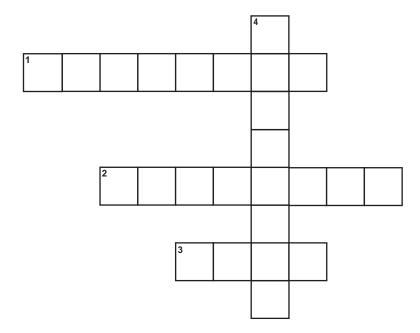
[1]

(c) What is the unit for force?

Circle the correct answer.

friction	gravity	kilogram	mass	newton	
		•			[1]

- **15** Complete the crossword about food chains.
 - **1.** An animal that hunts another animal. (8 letters)
 - **2.** A food chain always starts with this. (8 letters)
 - **3.** An animal that gets eaten by another animal. (4 letters)
 - **4.** An animal that eats plants or other animals. (8 letters)



[3]

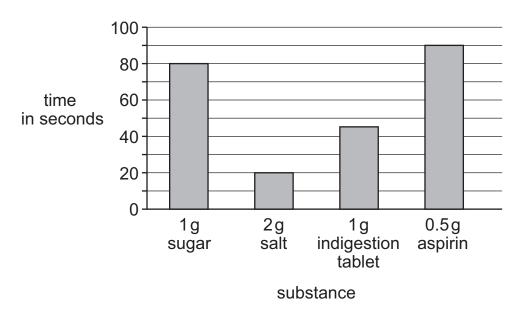
16 Jamila investigates the time it takes for different substances to dissolve in water.

In each experiment she

- uses 100 cm³ of water and adds one of the substances
- · stirs the mixture until the substance dissolves
- · stirs the mixture at the same speed.

Jamila repeats the experiment with different substances.

She plots her results as a bar chart.



(a)	Jamila has not done a fair test.	
	Use information from the bar chart to explain why.	
		[1]
(b)	Which substance dissolves in the shortest time?	[1]
(c)	How long does it take to dissolve the indigestion tablet ?	Γ 4 .

(d)	Jamila predicts that as the mass of aspirin increases, the time taken				
	to dissolve it increases.				
	She tests her prediction by doing experiments.				
	Tick (✓) the three factors she keeps constant.				
	mass of aspirin				
	speed of stirring				
	temperature of water				
	time to dissolve				
	volume of water				
		[2]			

20

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