

Cambridge Primary Checkpoint

SCIENCE					009	7/01
CENTRE NUMBER			CANDIDATE NUMBER			
CANDIDATE NAME						

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

Paper 1

- Answer all questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- You should show all your working in the booklet.
- You may use a calculator.

INFORMATION

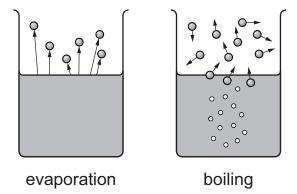
- The total mark for this paper is 40.
- The number of marks for each question or part question is shown in brackets [].



April 2025 35 minutes

A virus passes from one host to another and causes disease.
(a) Name something else that passes from one host to another and causes disease.
[1]
(b) Some viruses enter the body through the respiratory system. Describe how the respiratory system helps prevent viruses entering the body.

2 Chen draws a particle model to show evaporation and boiling.



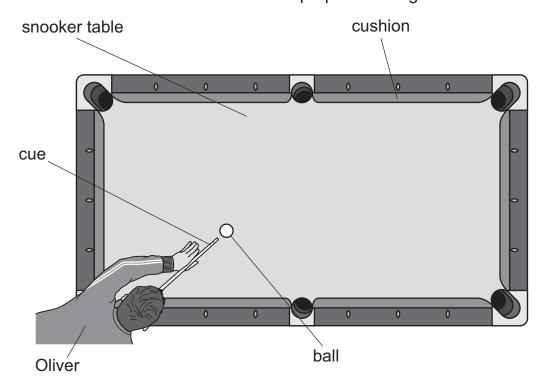
(a) Evaporation only happens at the surface of a liquid.

(b)

Describe how the particle model shows evaporation only happens at the surface of a liquid.	
	[1]
Evaporation only happens at the surface of a liquid.	
Boiling happens throughout a liquid.	
Describe how the particle model shows one other difference between evaporation and boiling.	
	•••••

[1]

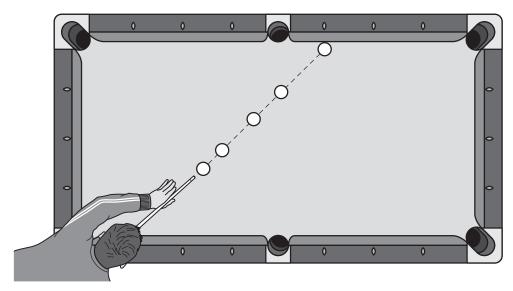
3 Oliver uses a snooker table to model some properties of light.



(a) Oliver hits the ball with the cue.

The ball moves in a straight line towards the cushion.

Complete the diagram below to show what happens after the ball hits the cushion.



[1]

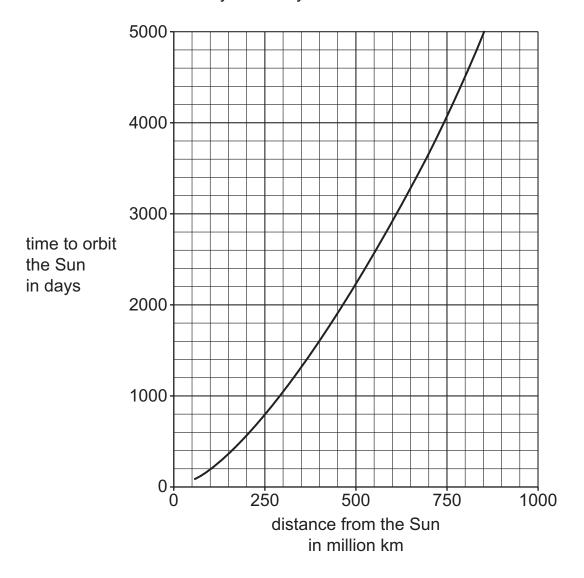
(b) The model shows that light travels in straight lines.

Which **other** property of light does the model show when the ball hits the cushion?

[1]

4 Astronomers discover asteroid **X** orbiting the Sun.

Asteroid X orbits the Sun every 1800 days.



Use the graph to suggest the distance of asteroid **X** from the Sun.

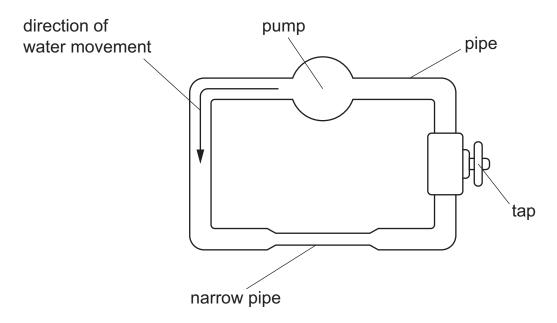
distance of asteroid **X** from the Sun = _____ million km [1]

, ,	ake place duri	ing puberty.		
Vrite down two ph	ysical changes	s that take place	in females .	
he table shows so	ome properties	of four gases.		
gas	colourless	easy to compress	found in clean air	has an odour
carbon dioxide	yes	yes	yes	no
chlorine	no	yes	no	yes
nitrogen	yes	yes	yes	no
oxygen	yes	yes	yes	no
a) Which property Circle the corre		-		
		colourless		
	ea	sy to compress	5	
	fo	und in clean air		
		has an odour		
b) There are othe	r properties of	all gases that ar	e not snown in	the table.
b) There are other Write down on e			e not snown in	the table.

7 The diagram shows water moving through pipes.

The diagram contains a pump, a tap, pipes and a narrow pipe.

The pump pushes water through the pipes.



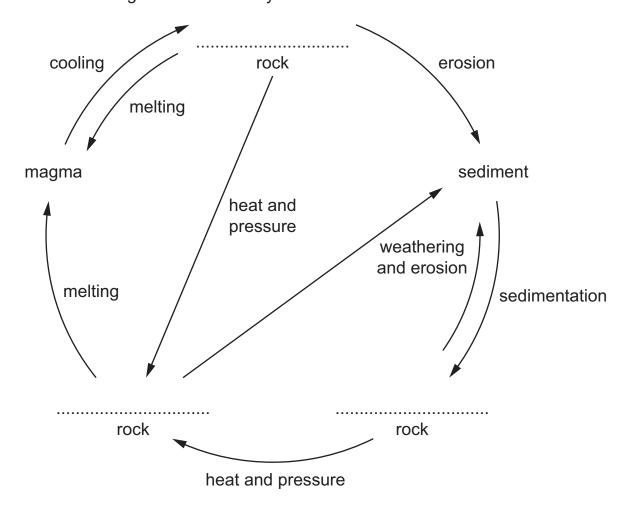
The diagram is a model of an electrical circuit.

Complete the table to show which electrical component the pipes, narrow pipe, pump and tap are modelling.

Two have been done for you.

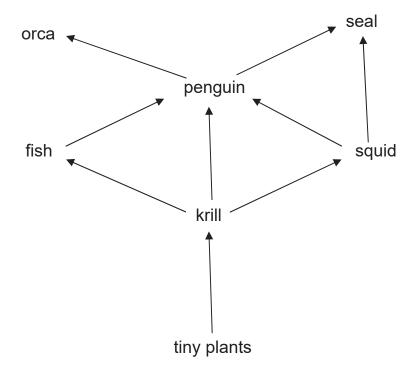
diagram	electrical component
pipes	wires
narrow pipe	lamp
pump	
tap	

8 Look at the diagram of the rock cycle.



Complete the diagram by writing in the names of the **three** types of rock. [2]

9 Look at the food web.

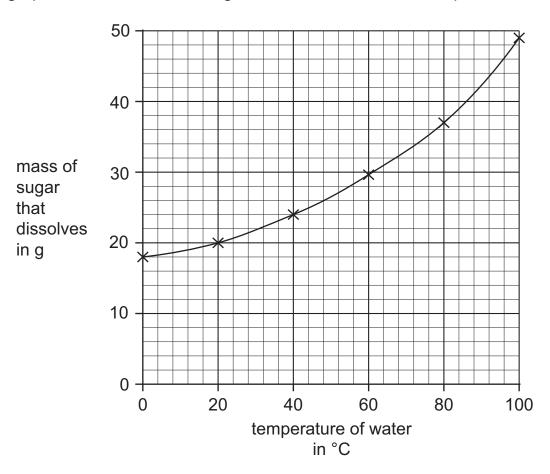


		 [1]
	Suggest why this may be harmful to the penguins.	
(d)	The tiny plants absorb a toxic substance in the water.	
(c)	Write down the energy source for this food web.	[1]
		[1]
(b)	Name one animal in this food web that is a predator and a prey.	
		[1]
(a)	Name all the animals in this food web that only eat krill.	

10 Priya dissolves sugar in water at different temperatures.

She measures the mass of sugar that dissolves at each temperature.

The graph shows the mass of sugar that dissolves at each temperature.



(a) Priya writes a sentence to describe the pattern in her results.

Complete her sentence.

As the temperature of water increases, the	
	[1]
	. [1]

(b) When sugar dissolves in water it forms a sugar solution.

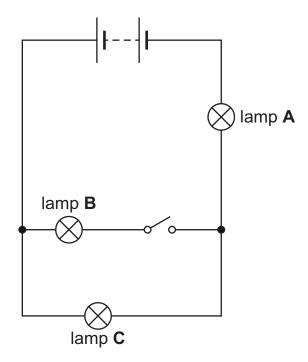
Describe what happens to the particles in the sugar solution as the temperature increases.

[1]

(c) Tick (✓) two true state	Tick (✓) two true statements about dissolving sugar in water.		
a gas is produced			
it is a physical change			
it is reversible			
sugar evaporates			
sugar melts in the wate	r		

[2]

11 Youssef makes this electrical circuit.



					_
(a)	Which	two	lamps	liaht	up?

	lamp and lamp	[1]
(b)	Complete the sentences about this circuit.	
	It is a series circuit when the switch is open because	
	It is a parallel circuit when the switch is closed because	
		••••
		· [2]

12 This question is about animal fossils.

Tick (\checkmark) the correct box to show if the sentence is true or false.

sentence	true	false
Fossils are found in all rock types.		
Layers of sand cover a dead animal when a fossil forms.		
The soft parts of an animal form a fossil.		
The fossil is seen when the rocks around the fossil erode.		

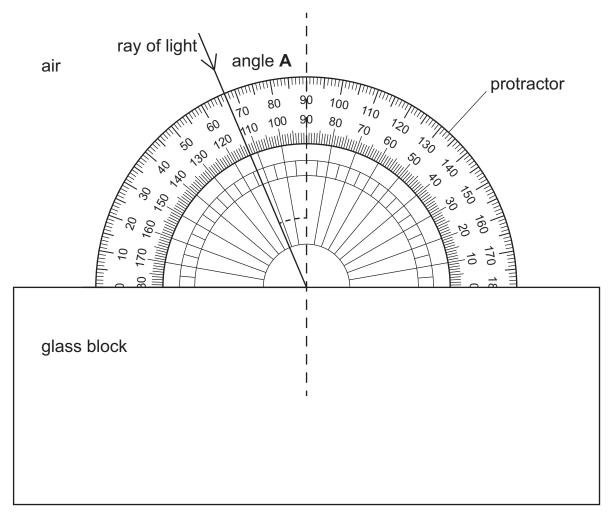
13	Jamila investigates how exercise affects the number of breaths she takes in.
	Jamila:
	sits still for five minutes
	measures the number of breaths she takes in for one minute
	runs very fast for two minutes
	measures the number of breaths she takes in for one minute.
	(a) What is the dependent variable in this investigation?
	[1
	(b) Complete the prediction for this investigation.
	Our breathing rate during exercise so that more
	moves from the lungs into the

[2]

14 The diagram shows a ray of light travelling in air.

The ray of light is travelling towards a glass block.

There is a protractor against the surface of the block.



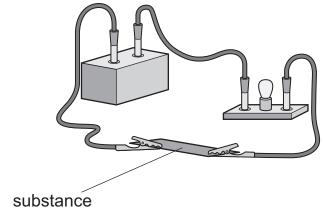
					_		
(a)	Write	down	the	value	of	angle	A.

0	[1]
	נין

(b) Draw the ray of light as it passes through the glass block. [1]

15 Mia investigates **one** property of different substances.

She uses this equipment.



Mia puts each substance in the position shown in the diagram. She observes what happens to the equipment. (a) Write down the name of the property she investigates. [1] (b) Describe how this equipment shows a substance has this property. (c) Mia says: 'The substance has not been changed chemically. There is no chemical reaction.' Mia is correct. Describe why Mia is correct.

16	This	question	is	about	mass	and	weight.

Tick (✓) the **correct** sentence.

Mass is a force.

Weight is the amount of matter in a solid, liquid or gas.

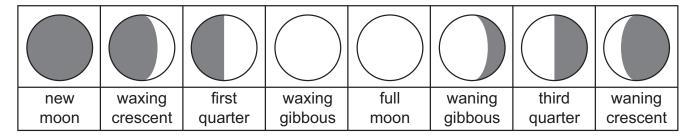
Mass is measured in kilograms.

Weight is measured in grams.

[1]

17 Safia lives in the Northern Hemisphere and observes the phases of the Moon.

She draws diagrams to show the phases of the Moon.



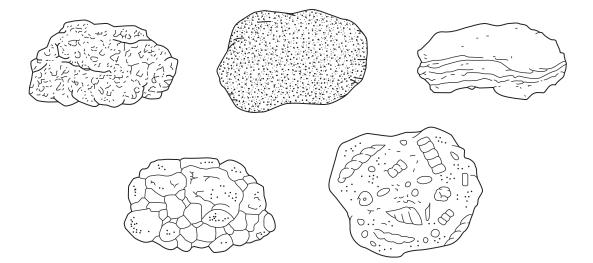
The diagram for a waxing gibbous moon is not shown.

Complete the diagram by drawing a waxing gibbous moon.

[1]

18 Ahmed observes five rocks.

He designs a key to identify each type of rock using his observations.



Suggest **two** questions he uses in his key to identify the types of rock.

question 1	
question 2	

[2]

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