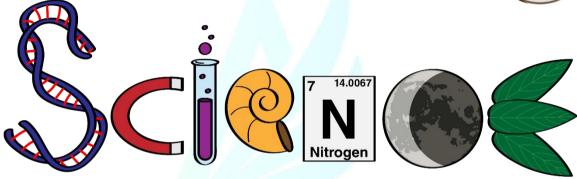
Science Department

Year 4 2023/2024









Science Department 2023/2024

Year 4

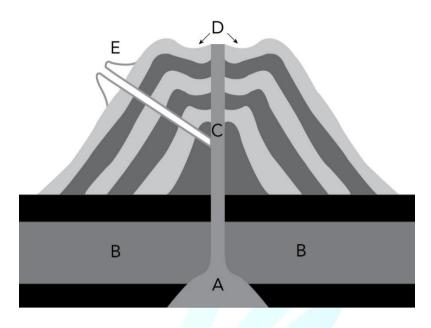
Term 2, Revision packs

## NTERNATIONAL SCHOOL

vame:	•••••	•••••	 •	•••••	•••••
Class: .			 		



1) Name the parts of the volcano labelled A-E



	* *	
a-	Magma	

b-\_\_\_\_\_.

c-\_\_\_\_Pipe / Vent\_\_\_\_\_.

d-\_\_\_\_\_.

e-\_\_\_\_Secondary cone\_\_\_\_\_.

2) Fill in the words to complete these sentences. Use these words:

Composite earthquakes ring ejects tsunami ash lava fire breaks pacific

a- The volcano	_ <b>e je cts</b> n	naterial from	the crater.	The vol	lcano in the	e diagram is a	composite
volcano because it	has repeating	g layers of	lava	_ and	_ash		

- b- Volcanoes form where there are \_\_\_\_breaks\_\_\_\_ in the Earth's crust.
- c-When an earthquake starts under the sea it causes a giant wave called a \_\_\_tsunami\_\_.
- d- Volcanoes and <u>\_\_earthquakes\_\_</u> are common around the <u>\_\_pacific\_\_</u> Ocean. This area is called the Pacific <u>\_\_ring\_\_</u> of <u>\_\_\_fire\_\_</u>.

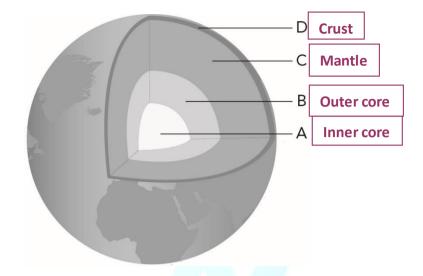
Science Department	2023/2024	
Science Department 3) Complete the following sen	ntences by adding 'thicker than' or 'thinner than'	ASPIRE INTERNATIONAL SCHOOL
a- The mantle isthick	ker the crust.	
b- The mantle isthin	ner the core.	
4) Complete the following sen	ntences by adding 'hotter than' or 'cooler than'.	
a- The crust iscoole	rthe mantle.	
b- The core ishotto	er the mantle.	
5) Describe the difference bet	tween:	
a- the external structure of the	e Earth and the internal structure of the Earth	
External: Describes the o	outer surface of the Earth	
Internal: Describes the la	yers inside the Earth	
b- magma and lava		
Magma: Liquid rock und	er the Earth's surface	
Lava: When magma reac	hes the surface, it's called lava	
c- an earthquake and a tsunan	ni.	
Earthquake: Starts on la	726161	
They can eat hundreds of kilog	ation about elephants.  ions where there is grass and trees. They spend 12 t grams of grass, leaves and twigs every day. Elepha e their long trunks to suck up water and grip grass, to	nts can also drink up to 200
a-Describe the habitat of an e	elephant.	
A hot wet region with gr	eass and trees	
b- Describe one way that an e	elephant is suited to its habitat.	
It has a long trunk for su	cking up water and gripping leaves and grass	_
c-Do you think elephants car	n survive in a dry habitat? Why?	
Not easily, because they d	lrink up too 200 litres of water a day	

Science Department

#### Year 4 2023/2024



7) Here is a diagram of the internal structure of the Earth. Label



8) Complete the sentences about earthquakes. Choose the words from this list.

Energy noise damage waves crust core

- a-Earthquakes happen because of sudden movements of rocks in the Earth's \_\_\_crust\_\_.
- b- When huge pieces of rock move they create a lot of \_\_energy\_\_.
- c- The energy transfers into \_\_waves\_\_.
- 9) Answer
- a-Which layer is solid and made of metal?

Inner core

b- Which layer is liquid rock?

\_Mantle\_

Year 4 2023/2024

#### Science Department

ASPIRE

10) An earthquake occurred in Japan. The epicentre was 10 km off the coast.

Tsunami warnings were sent to everyone living along the coast of Japan and other islands nearby.

a- What is an epicentre?

\_\_The point on the earth's surface, above the focus, where the earthquake begins.\_\_

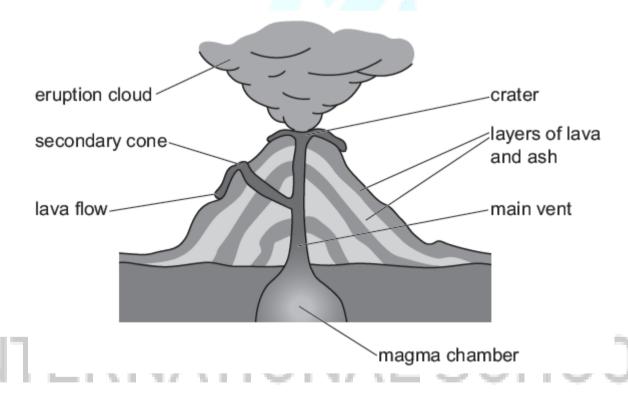
b- Why were warnings sent to people living along the coast?

The tsunami will flood the coast and people will drown.\_\_\_\_

c- Why does Japan often have earthquakes?

\_\_\_It's on the Pacific ring of fire.\_\_\_

11) The diagram shows the features of a volcano.



a-	Use	the	diagram	to	nelp	you.
----	-----	-----	---------	----	------	------

Liquid rock is found below ground in the \_\_\_\_magma\_\_\_\_ When the volcano erupts lava flows out of the secondary cone and out of the \_\_\_\_crater\_\_\_.

b- Volcanoes are found at breaks in the Earth's crust.

What word describes the sudden movement of the Earth's crust?

**Earthquakes** 

Science Department 12) Mike also sees this bird.

Year 4 2023/2024





The bird has a beak suited to help it feed in the habitat where it lives.

Tick ( $\checkmark$ ) one box that describes how the bird feeds. Use the picture to help you. uses its beak to pick up seeds from the ground uses it beak to pull insects from the mud uses its beak to scoop up large fish into its mouth uses its beak to pull plants from the water

# ASPIRE INTERNATIONAL SCHOOL

Year 4
Science Department 2023/2024



13) The largest active volcano is Mauna Loa in Hawaii.



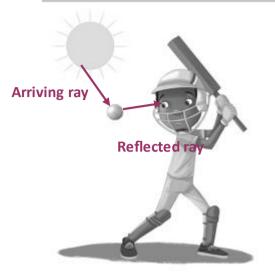
Describe what causes volcanoes. Circle the correct answer.  a break between the land and sea
a break in the Earth's crust
a break in the Earth's core
a break in the Earth's mantle
14) Fill in 'better than' or 'worse than' to complete these sentences.
a- A mirror reflects light any other surface. b- A sheet of brown paper reflects light worse than a sheet of aluminium foil.
15) Describe where most of the asteroids are in the solar system. In the asteroids belt between Mars and Jupiter
16) Describe a comet. A lump of ice and dirt that moves in a large orbit around the sun
17) Complete these sentences to describe the pattern in the results.
In the morning the shadow becameshorter After midday the shadow becamelonger
18) What Earth movement causes day and night?
Spinning on its axis
19) How long does this movement take?
24 hours (1 day)

#### Science Department

#### Year 4 2023/2024



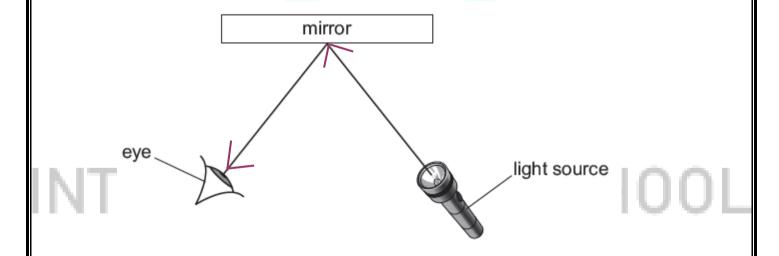
20) Draw rays on this diagram to show how Marcus sees the cricket ball. Label the



21) Our Solar System contains planets and a star. Write down **one other** object found in our Solar System.

\_\_\_\_Asteroids / comets\_\_\_\_

22) Carlos draws a diagram of his science investigation.



- a- Draw two arrows on the diagram to show the direction light travels.
- b- Complete these sentences about light.

Light travels in \_\_\_straight\_\_\_ lines. When light reaches the mirror the light changes direction because it is \_\_\_reflected\_\_\_\_.

Science Department 23) Complete the sentence

Year 4 2023/2024





a-Choose from the following

It has food.

It is camouflaged.

It is dry.

It is hot.

It is cold.

b- The color of the toad makes it suited to living in its habitat because

Camouflage

c-Frogs need oxygen from their habitat. What 2 other things does the frog need from its habitat?

1- Food

2- Shelter

### NTERNATIONAL SCHOOL

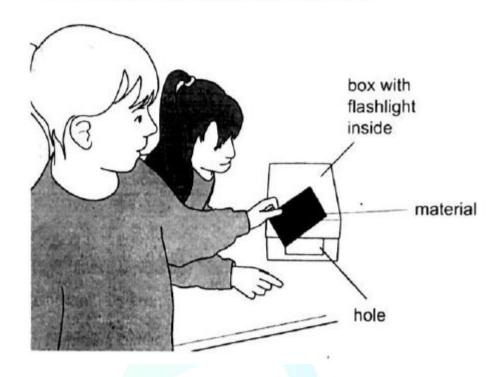
Year 4 2023/2024

#### Science Department

24)



- A hole is cut in a box.
- A flashlight is put inside the box.
- Different materials are put over the hole in the box.



(a) Predict what will happen if the material is transparent.

Complete the sentence.

If the material is transparent I predict

Light will pass through the material

(b) Why do we see light from the flashlight?

Circle the correct answer.

light goes into our eyes

light is reflected by our eyes

light goes into the flashlight

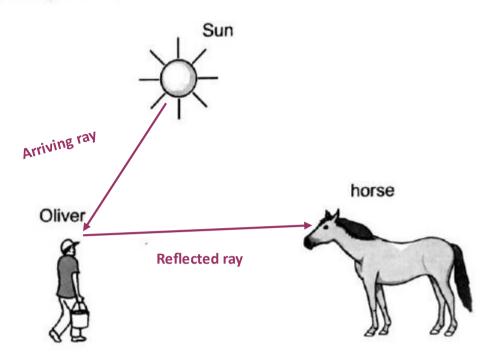
light is reflected by the flashlight

Science Department 25)

Year 4 2023/2024



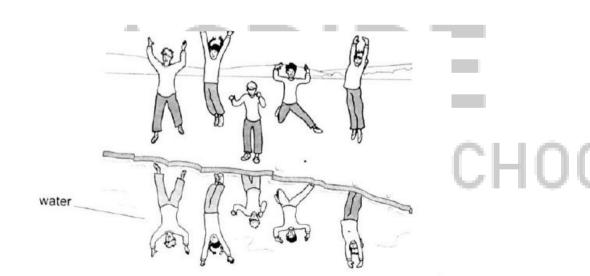
Here is a diagram of Oliver and his horse.



Draw rays of light on the diagram to show how the horse can see Oliver.

26)

IN



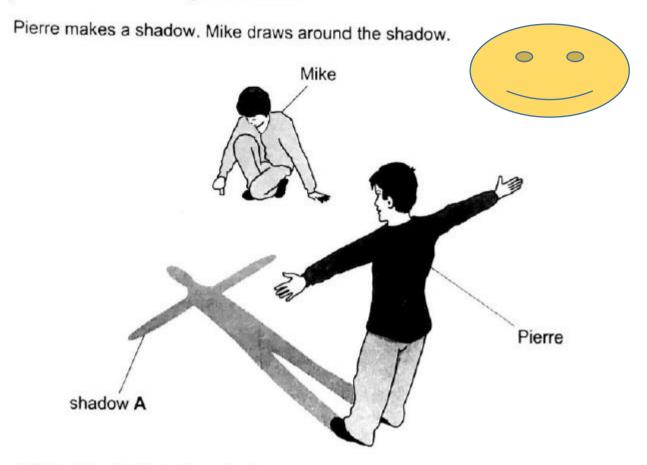
Explain why it looks like there are ten friends in the picture.
Light is reflected

Science Department 27)

Year 4 2023/2024



Pierre and Mike investigate shadows.



(a) Explain why there is a shadow.

Sunlight is blocked

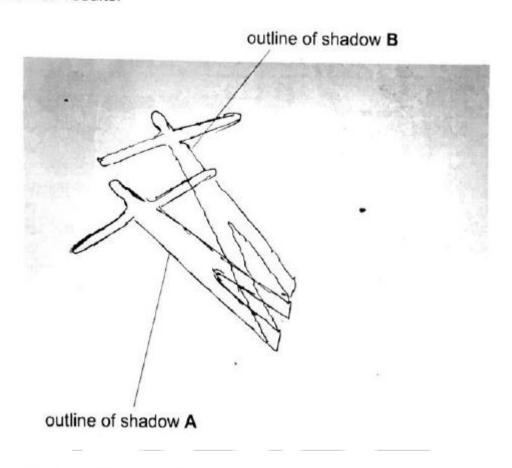
# MADIIKE NTERNATIONAL SCHOOL



Pierre makes another shadow. Mike draws around this shadow.

Here are their results.

difference 1



b) Describe two differences between shadow A and shadow B.

	difference 2	Different positions
c)	Why is there a	difference between shadow A and shadow B?
	Differen	positions of the sun and taken at different times.

Shadow A is shorter

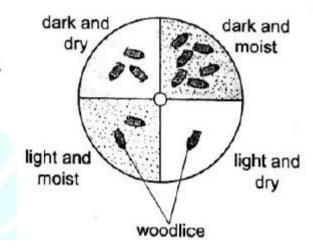


28)

#### Aiko investigates different conditions animals like to live in

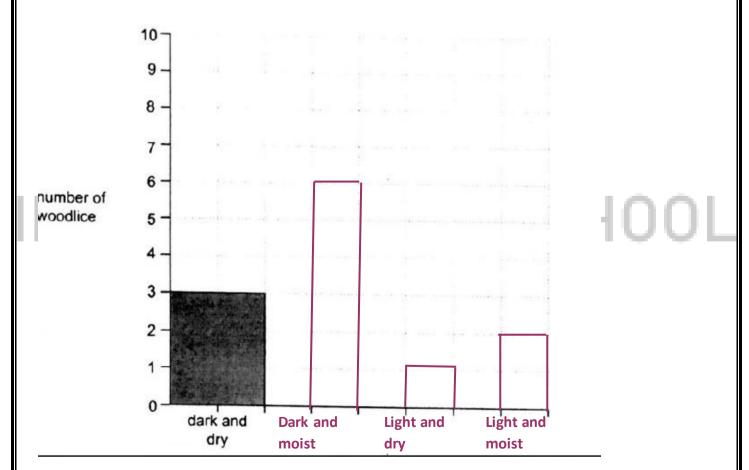
- She sets up a dish with four different conditions.
- She puts 12 woodlice into the dish.
- She leaves the woodlice for 30 minutes.

Here are her results.



) Complete the bar chart of her results.

The first one has been done for you.



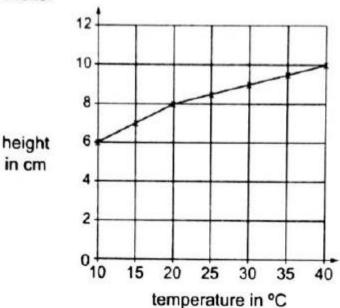


Carlos investigates how temperature affects the growth of tomato plants.

In his investigation he:

- puts some tomato seeds in soil
- · adds water to the seeds
- keeps the seeds at different temperatures
- measures the height of the tomato plants after 30 days.

Here are his results.



Complete the sentences about the graph.

When the temperature is 10°C the height of the plant is	6	cm.
---	---	-----

Thank You!