



1. The drawing shows a man flying a model plane.



- (i) Which of the following processes is characteristic of **both** the man and the plane?  
Circle the correct answer or answers.

nutrition      growth      movement      reproduction      [1]      [

- (ii) Which of the following processes is characteristic of a man **but not** a model plane?  
Circle the correct answer or answers.

nutrition      growth      movement      reproduction      [1]      [

2. Complete each sentence using a word from the box below it.



- (i) The skeleton is moved by the ..... when the body moves.

legs

arms

bones

muscles

- (ii) The bones in the skeleton are ..... so that they can support the body.

straight

long

rigid

curved

3. complete the sentences using the words in the box below:

**Pairs      contracts      relaxes      pushing      shorter**  
**longer      pulling**

When I lift a weight, the biceps muscle .....  
and gets ..... in length.

The triceps muscle ..... and gets  
.....

This shows that muscles work in ..... by  
..... bones.

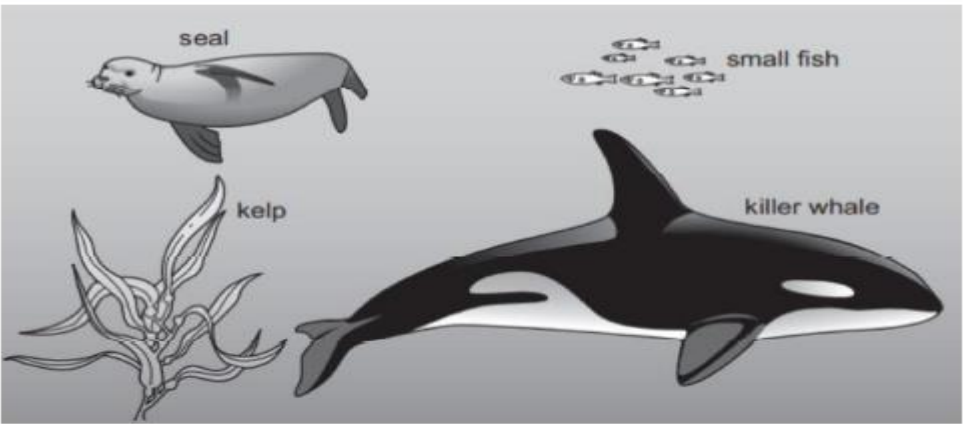
4. complete the sentences using the words in the box below:

**Symptoms      Leaflet      Unwell**

We sometimes take medicines when we feel  
.....

Medicines treat the ..... and make  
us feel better. It is very important to read the  
..... which is for the medicine before taking it.

5.The picture shows some living things that are all found in the same habitat.



a) The seal eats small fish that feed on kelp. The seal is prey for the killer whale.  
Show this feeding relationship as a food chain. (Draw food chain)

.....

b) Name the producer in this food chain.

.....

c) Underline two words that describe the killer whale.

predator                      herbivore                      prey                      consumer

6.



The food chain shows the flow of energy.

a) Where does the grass get its energy from?

.....

b) The lion is a predator.  
Explain how you can tell from the food chain.

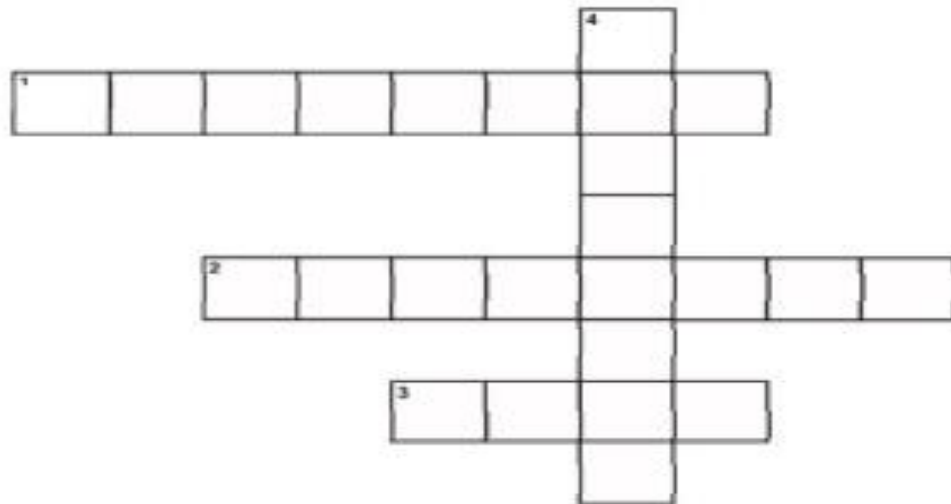
.....

c) . Which two words describe an antelope?  
Tick (✓) the **two** correct boxes.

Consumer	<input type="checkbox"/>
Predator	<input type="checkbox"/>
Prey	<input type="checkbox"/>
Producer	<input type="checkbox"/>

7. 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)



8. Plants and animals are living things that need food. They get food in different ways.

Decide if each statement is true or false.  
Put a tick (✓) in the correct box beside each statement.

	True	False
Animals need to get their food by eating other plants or animals.	<input type="checkbox"/>	<input type="checkbox"/>
Plants make their own food.	<input type="checkbox"/>	<input type="checkbox"/>
Plants need to get their food from animals.	<input type="checkbox"/>	<input type="checkbox"/>

[3]

9. Sort these items into solid, liquid or gas by drawing lines to the correct state of matter.

A wooden chair	•	•	Solid
The bubbles in my lemonade	•		
Orange juice	•	•	Liquid
Tomato ketchup	•		
A piece of chocolate	•	•	Gas
The helium inside my balloon	•		

- If you put something in a container, how would you tell if it was a liquid?

10. The three states of matter are solid, liquid and gas.

The table shows the state of matter at room temperature, 25 °C, of some materials.

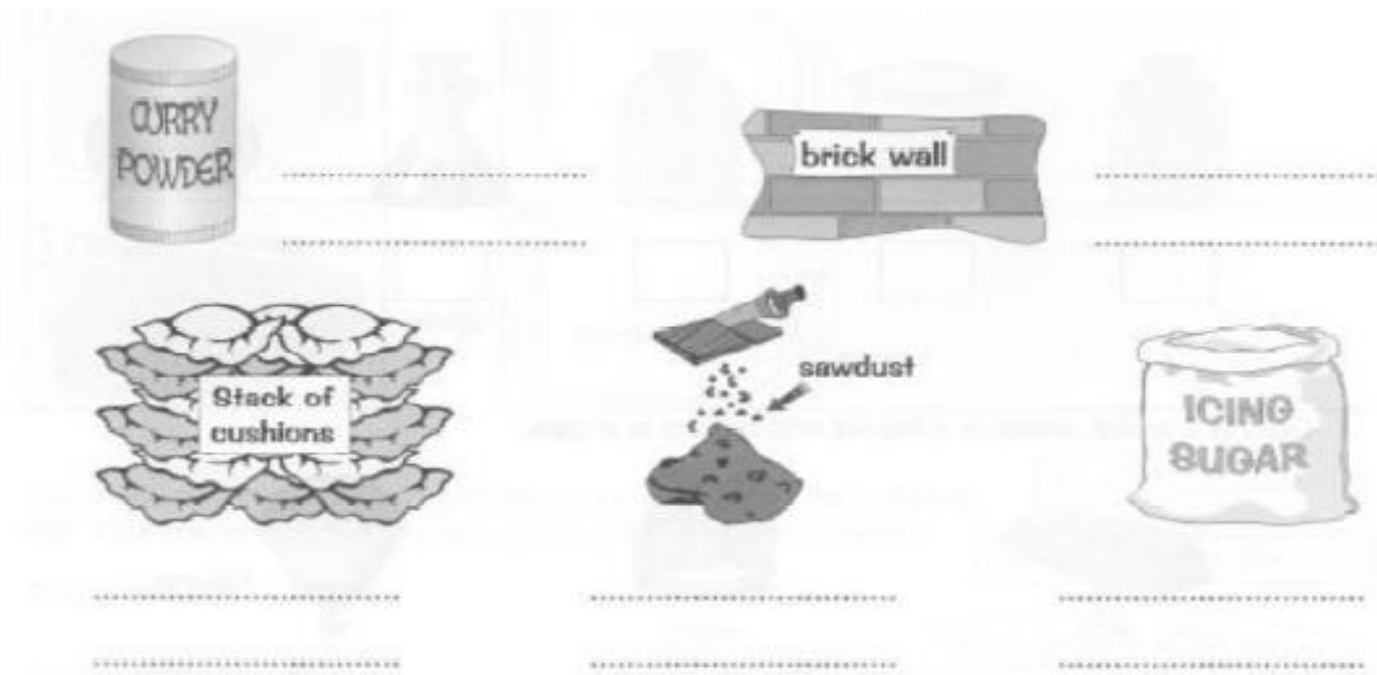
Complete the table.

Tick (✓) the correct boxes.

One has been done for you.

material	solid	liquid	gas
water		✓	
iron			
mercury			
oxygen			
carbon dioxide			
copper			
salt			

11. Look at these solid materials. Decide which one act like liquids and which act like normal solids:



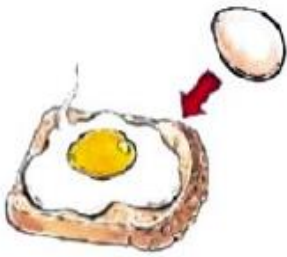
12. Fill in the missing words in the sentences below:

Evaporation occurs when a \_\_\_\_\_  
turns into a \_\_\_\_\_.

Condensation is when \_\_\_\_\_ (gas)  
is cooled down and turns into \_\_\_\_\_.

\_\_\_\_\_ is when liquid (or solid) particles fall from  
a cloud as rain, sleet, hail or snow.

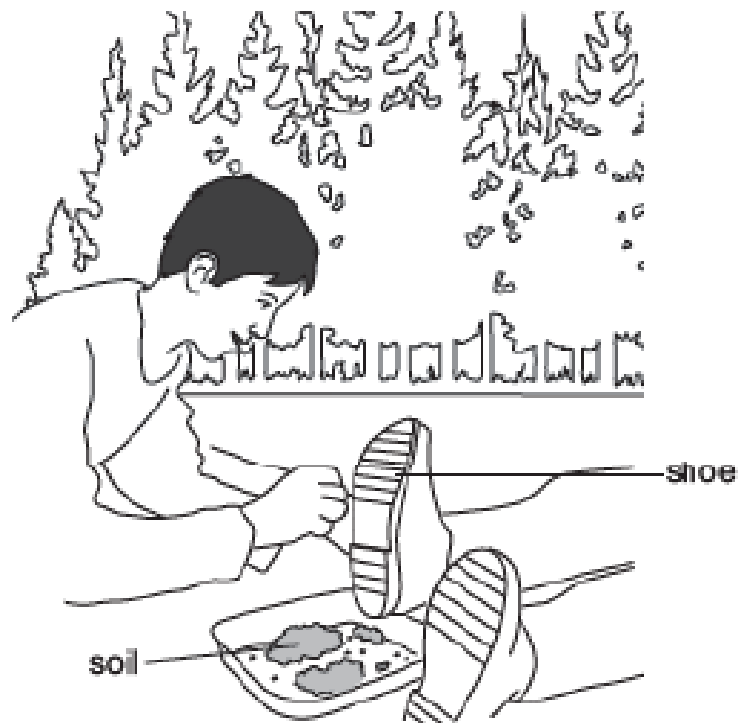
13. Write physical or chemical under each picture:



14. Write the process that happens.



15. Ahmed and Hassan investigate plant seeds.



- Ahmed walks in a forest.
- Hassan collects the soil from the bottom of Ahmed's shoe.
- They look at the soil they have collected.
- They repeat the investigation in different places.

(a) Ahmed always walks the same distance in each place.

Why does he do this?

..... [1]

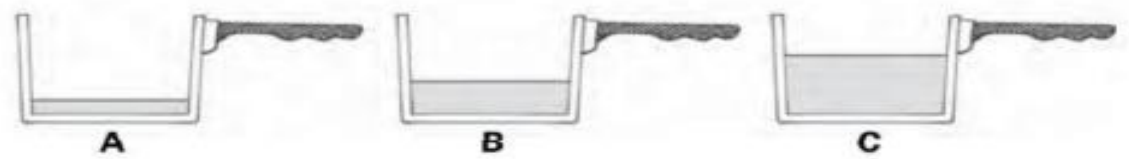
(b) Write down one other factor they keep the same in each place.

..... [1]

16. Answer the following:

(a) Jenna has three saucepans of water.

Jenna wants to find out how long it will take to heat each saucepan of water to 50°C. Look at the diagram.



What variable is Jenna changing in her investigation?

 .....

(b) Jenna times how long it takes to heat each saucepan of water to 50°C. Jenna’s mum helps her to do this safely.

Name a piece of equipment Jenna could use to measure the temperature of the water.

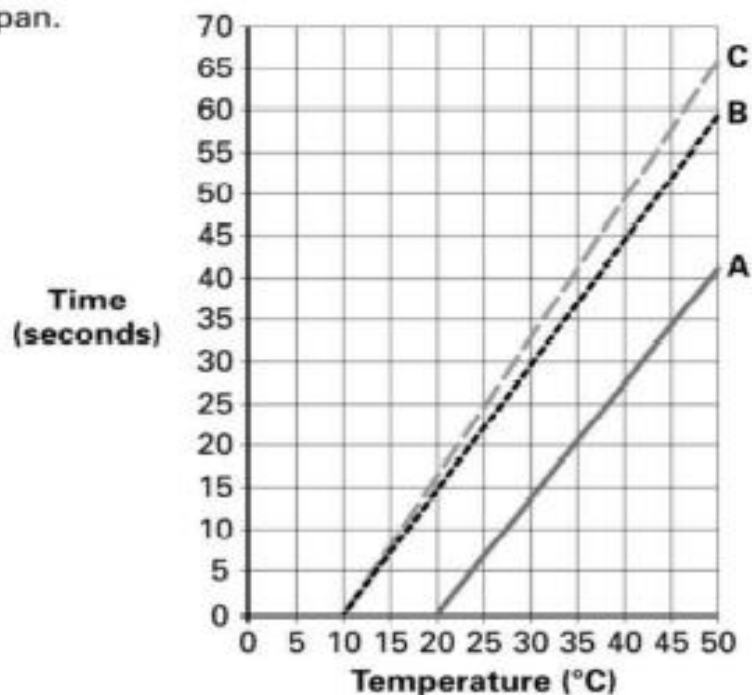
 .....

(c) Each saucepan has a wooden handle.

How does the wooden handle make using the saucepan safer?

 .....  
.....

- (d) The graph below shows how the water temperature changed in each saucepan.



How much time did it take the water in saucepans **A** and **B** to reach 50°C? Use the graph to help you complete the table.



Saucepan	Time to reach 50°C (seconds)
A	
B	
C	66

(1 mark)

17. Blessy looks at herself in a mirror.



Tick (✓) the two correct sentences about what Blessy sees.

Blessy can see something because light has entered her eyes.

☐

Blessy has been reflected in the mirror.

☐

Blessy is behind the mirror.

☐

The light from Blessy does not change direction.

☐

The light from Blessy is reflected by the mirror.

☐

[2]

18. Complete these sentences using the words shown.

**direction**

**dull**

**shape**

**shiny**

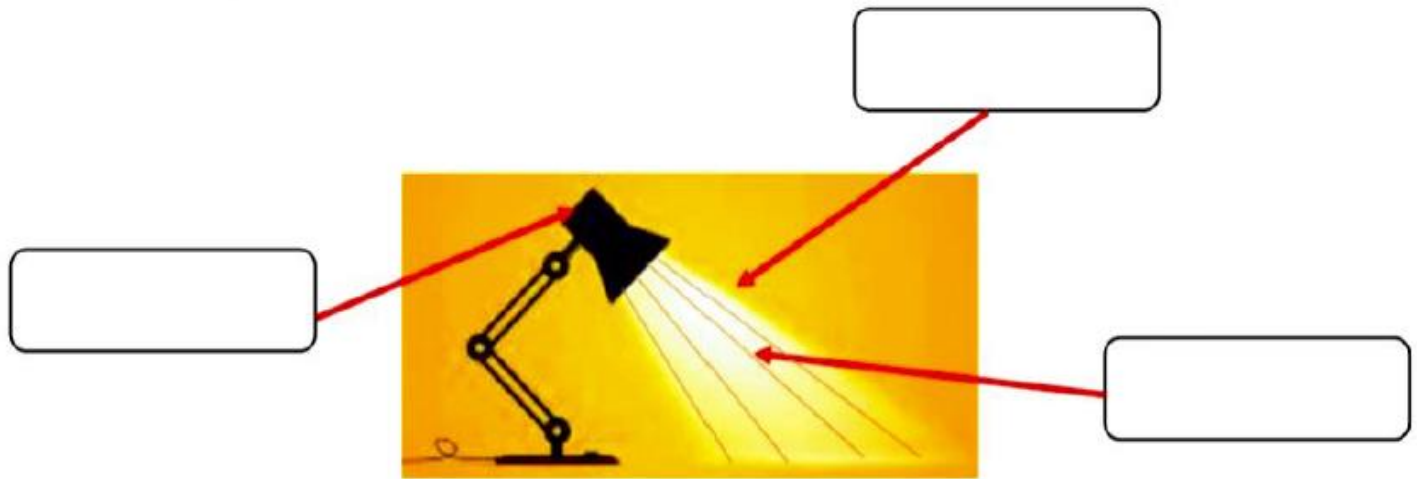
**speed**

When a beam of light hits a mirror it changes .....

Reflections can be seen in surfaces which are .....

Cardboard does not reflect light because it is .....

19. Label the diagram.



beam - ray - light source

20. George makes a model of the Sun, Earth and Moon.  
He uses two bread rolls and a 50p coin.



Tick **THREE** boxes to show some changes that would make  
George's model more accurate.



The Sun should  
be bigger.

☐

The Moon should be the  
same size as the Earth.

☐

The Sun should  
be a sphere.

☐

The Moon should be an  
oval.

☐

The Sun should  
orbit the Earth.

☐

The Moon should be  
closer to the Earth.

☐

(2 marks)

21. Ahmed and Rajiv use the internet to find information about planets.

planet	years to orbit around the Sun	Earth days to orbit around the Sun
Earth	1 Earth year	365.2
Jupiter	1 Jupiter year	4332.0
Mars	1 Mars year	687.0
Mercury	1 Mercury year	88.0
Venus	1 Venus year	224.7

- (a) Which planet takes the longest time to orbit the Sun?

Circle the correct answer.

**Earth      Jupiter      Mars      Mercury      Venus**

[1]

- (b) Which planet has the shortest year?

Circle the correct answer.

**Earth      Jupiter      Mars      Mercury      Venus**

[1]

- (c) The larger the orbit around the Sun the more days it takes to move around the Sun.

Which **two** planets have a smaller orbit than the Earth?

Circle the correct answers.

**Earth      Jupiter      Mars      Mercury      Venus**

[1]