Geography

Organiser









ı erm 1	Topics	Checklist
Map Skills	Three types of	
	Geography	
	Mental Maps	
	Symbols	
	Direction	
	Measuring distance	
	Grid References	
	Plans	
	Scale	
	Test yourself	
Term 1	Topics	Checklist
Rocks	Structure of the Earth	
	Rock Types	
	Weathering and	
	Erosion	
	Uses of Rocks	
	Test Yourself	

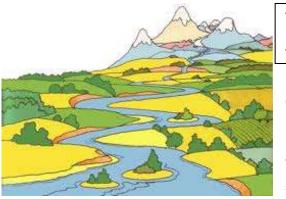
Term 2	Topics	Checklist
The World of Work	Types of Jobs	
	Coca Cola	
	Project	

Term 2	Topics	Checklist
Rainforest	Layers of the	
	Rainforest	
	Rainforest Dominoes	
	Vocabulary tree	
	What to wear	
	Destruction of the	
	Rainforest	

What is Geography?

There are three types of geography. Use the words in the word box to complete the sentences. Then colour the box beside physical geography red, human geography blue and environmental geography green.

and environm	iental geograp	ony green.			
Physical	Human	Environmental			
Geography is about what the earth is like. Geography is about where and how we live. Geography is about how we affect our surroundings The boxes below all match a certain type of geography use the key above to colour					
each box to n	natch the corr	ect type of geography.			
Natural disa floods, eartho volcan	quakes and	How countries trade goods like food with each other.	Natural features like rives, rocks, coasts and mountains.		
How and why population is		The need for all of us to recycle.	How clouds are formed.		
Why people different	•	Acid rain and greenhouse gases.	How we can protect wildlife.		



	Type of geography:
1000	

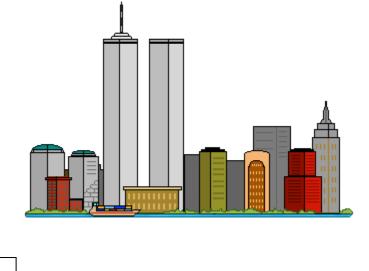
State three things that fit in with the type of geography in the picture

- 1._____
- 2._____
- 3.

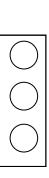
State three things that fit the type of geography on the picture

- 1.
- 2._____
- 3.

In the box draw a picture that you think describes **environmental geography.**



Type of geography: _____



Odd one out – Types of Geography 1. physical human river environmental	
I think is the odd one out because	
·	
2. man made unnatural human physical	
I think is the odd one out because	
·	
3. river shopping volcano weather I think	
4. mountain recycling pollution waste I think	
5. cities buildings crime hurricane	
I think	
6. In the spaces below make up two of your own lists and get y the odd one out	our partner to guess
the odd one out	
a)	_
b)	

In the box below draw your mental map of Hazelwood Integrated College. Don't forg to add labels and colour	
	get

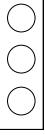
Mental Maps

Symbols

Using colour match the symbols to their meaning.

Picnic site	* * * *	Sch
Coniferous wood (fir trees)	PO	Path
Railway track	Lighthouse (in use)	Telephone
	P	Post office
		<u> </u>
School	X	Parking

Why do we use symbols on a map?	



Navigation Nightmare

Decode the symbols and then write out the letter on the next page.

Hi Chris,

Here are the directions I promised. Turn right when you reach the PH and carry on until you pass a

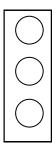
Go over the and through a , you will see signs for a and on your left and a little further on there is a clearing with a and PC.

As you come out of the you will see a . Follow the side of a . I will be arriving at the and turn at about 3pm.

See you soon,

Sam.

Navigation Nightmare



Measuring Distance – read the information below to help you remember how to measure distance on a map

How long is a piece of string?

It's usually not possible to travel in a straight line between two points on a map. If you're following a road or footpath, it can change direction many times to avoid things like woods and rivers.

However, there are still simple ways of measuring the actual distance you will need to travel between two points. One of them is to use a piece of string.

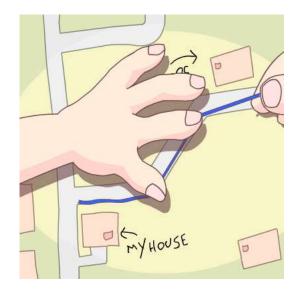


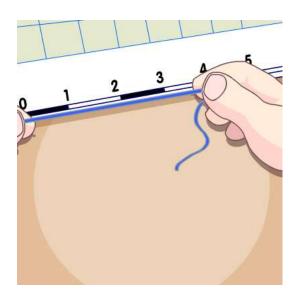
Step 1

Take a length of string – it's best to take one longer than you think you'll need – and place one end on your starting point.

Step 2

Now carefully lay the string along the road or path you know you're going to use, following the curves as closely as you can. When you reach your finishing point, mark it on your string with a pen.





Step 3

Now that you have your distance from the map, you can straighten out your string and place it against the scale bar to find out how far you will actually be travelling.

On the paper's edge

Another method of measuring distance is to take a sheet of paper and place the corner of a straight edge on your starting point. Now pivot the paper until the edge follows the route that you want to take.

Step 1

Every time the route disappears or moves away from the straight edge of your paper, make a small mark on the edge and pivot the paper so the edge is back on course.



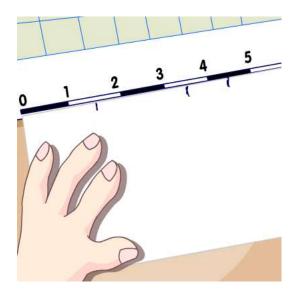
Step 2Repeat this process until you reach your destination.

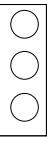


Step 3

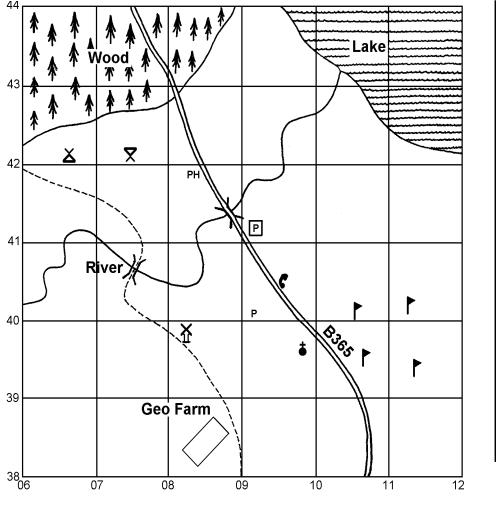
You should be left with a series of marks along the edge of your paper. You can now place the sheet against the scale bar on your map.

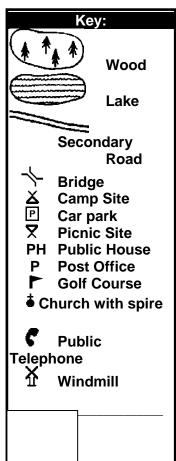
The last mark you made will tell you the real distance you need to travel.





Grid References





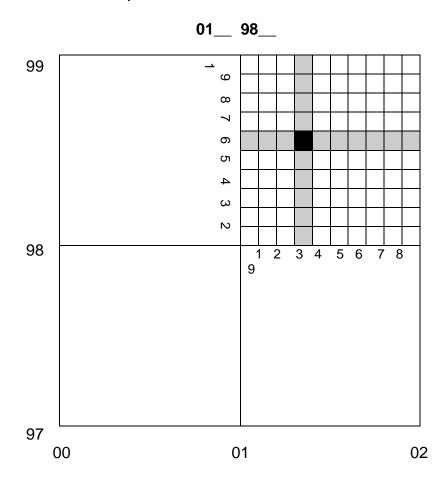
- 1. Give a 4-figure grid reference to locate the lake
- 2. Give a 4-figure grid reference to locate part of the wood
- 3. Give a 4-figure grid reference for a bridge
- 4. Give a 4-figure grid reference containing part of the golf course
- 5. Give a 4- figure grid reference for the Geo farm
- 6. Give a 4 -figure grid reference for the post office
- 7. The _____ is in square 0839.

8. The	is in square 0841.
9. The	_ is in square 0742.
10. The	_ is in square 0941.
6 figure grid references are	a much more accurate way to locate
places on a map (there is a	help sheet on the next page to remind
you how to do 6 figure refer	ences). Give the 6 figure grid references
for the following.	
11. a) Camp site:	
b) Parking :	
c) Windmill:	
Now use the 6-figure grid refe	rences to fill in the blanks.
12. a) The	is located at 074421.
b) The	is located at 083419.
c) The	is located at 091401.
15. A theme park has just be	en built close to the golf course in grid
square 1041. Think of symbol	ol for the theme park and add it to the key
with a label. Now add the the	me park to the map.

Six Figure Grid References

If you want to pinpoint an exact place on a map, such as your house, you will need to use a six figure grid reference.

First find the Four Figure Grid Reference for the square and write it down with a space after each set of numbers.



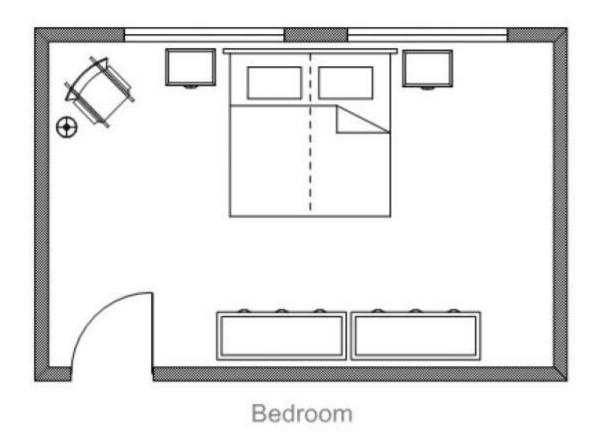
We can IMAGINE that each square is divided along the EASTINGS into ten and along the NORTHINGS into ten. This gives us one hundred smaller squares. In the example above the six figure grid references of the black square is: 01 3 98 5

<u>Plans</u>

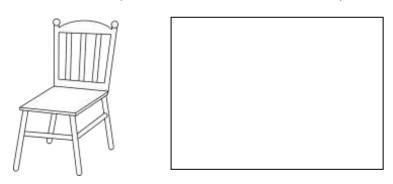
A plan is Geography is a 'birds eye view' of an object, room or area.

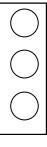
Looks at the plan below which shows a bedroom.

Label what you see in the bedroom on the plan.



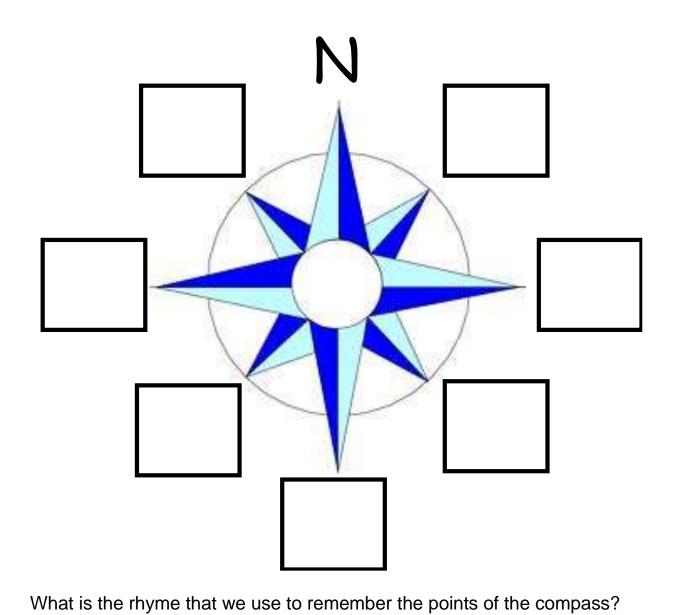
1. Look at the picture of the chair and draw a plan for it.





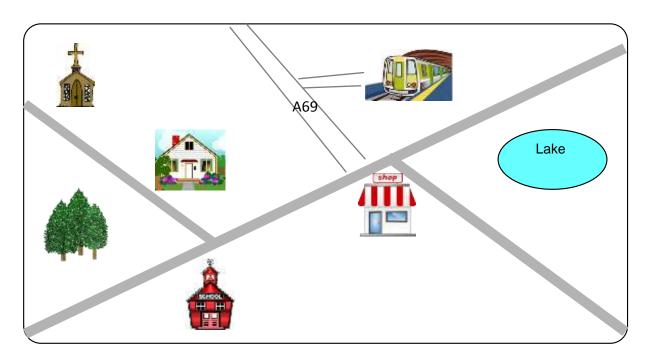
Compass Points

Complete the compass



Compass points

Using the map below answer the questions that follow;



1)	Fill in the gaps:	The school is s_		of the ho	use.
		The train statio	n is n	of t	the shop.
		The I is	east of	the house	
		The f	is west	of the sho	pp.
		The church is r	1	W	of the house.

2a) Underline where the following are compared to the shop.

The lake is north east/ south east of the shop.

The forest is west/east of the shop

The church is north east/ north west of the shop.

The train station is north/ south of the shop.

The school is north east/ south west of the shop.

2b) Underline where the following are compared to the church.

The forest is south/ north of the church.

The train station is east/ west of the church.

The house is north east/ south east of the church.

The shop is south east/ north east of the church.

The lake is south east/ south west of the church.

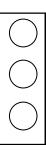
3. Make up two questions of your own one like que like question 2)	stion 1) and the other
a)	
b) -	

Scale

A map **scale** is the size of an object compared to the size of the object's smaller representative on a map. The scale lets the person using the map measure a distance on the map and know what is the distance on the ground. To use scale you need to practice your Math's.

1 cm equals 4 cm

1. What	does 3 cm equal?
2. What	does 2cm equal?
3. What	does 4 cm equal?
4. What	does 5 cm equal?
5. What	does 10 cm equal?
6. What	does 1.5 cm equal?
7. What	does 3.5 cm equal?
8. What	does 11 cm equal?
9. What	does 6 cm equal?
10.	What does 0.25 cm equal?
cm equ	als 8 cm
11.	What does 3 cm equal?
12.	What does 2cm equal?
13.	What does 4 cm equal?
14.	What does 5 cm equal?
15.	What does 10 cm equal?
16.	What does 1.5 cm equal?
17.	What does 3.5 cm equal?
18.	What does 11 cm equal?
19.	What does 6 cm equal?
20.	What does 0.25 cm equal?

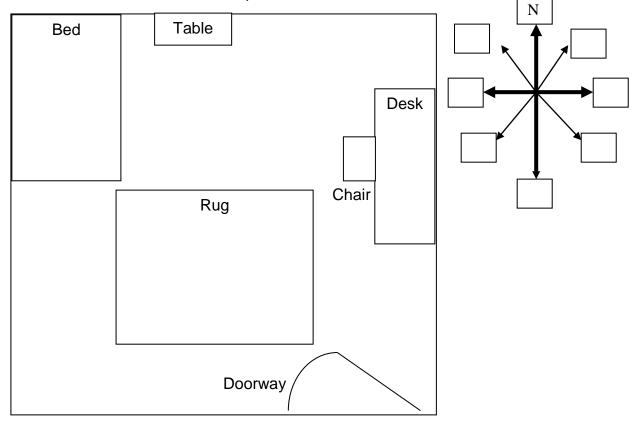


Test Yourself- Map Skills

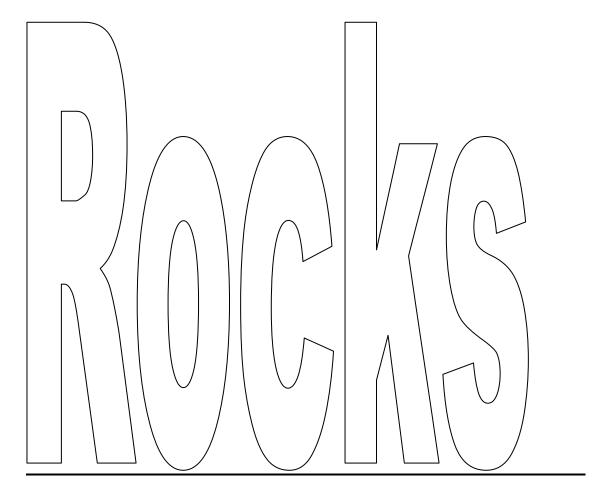
- 1. What are the three types of Geography?
 - A) _____
 - B)
 - C) _____
- 2. Complete the table below using your knowledge on OS symbols (6marks)

Complete the table below using your knowledge on OS symbols (omarks)		
Name of Symbol	Symbol	
Church with a spire		
	X	
Campsite		

The diagram below shows the plan of a bedroom. 1cm on the plan represents 20cm in the room. That is the **scale** of the plan.



a) Complete the compass (7marks)			
b) Complete the sentences using the compass directions and the plan of the bedroom. (5marks)			
The table is of the rug.			
The chair is of the desk.			
The is south east of the bed.			
The bed is of the doorway.			
c) 1cm on the plan represents 20cm in the room. That is the scale of the plan. Fill in the gaps using the plan of the bedroom. (6marks)			
On the plan the bed is cm wide. So in real life the window is cm wide.			
On the plan the rug is cm long. So in real life the rug is long.			
On the plan the desk is cm wide. So in real life the desk is long.			
d) How long is the table in real life?			
(2marks)			
e) The window in the bedroom has been left off the plan. The window is west of the desk and is 4cm long and 1 cm wide. Using a pencil add the window onto your plan. (3marks)			





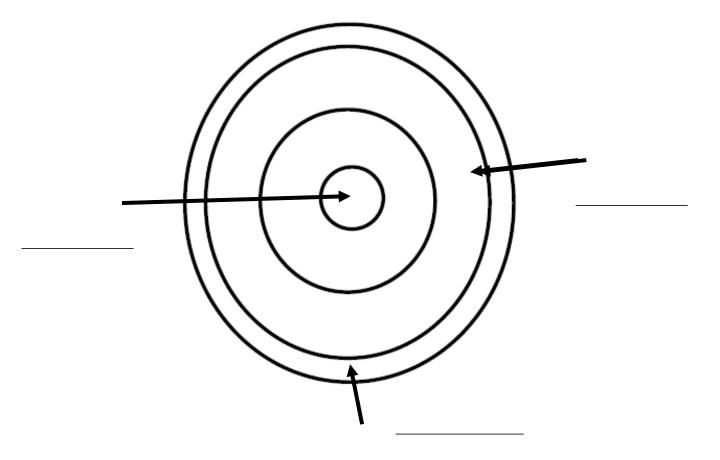
phillipmartin.info

Structure of the Earth

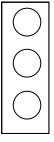
1. Label the diagram below. (3marks)

Use the word box to help you.

mantle	continental	oceanic	core
crust	upper crust	centre	



- b) Colour the hottest part red. (2marks)
- c) Colour the layer we live on green. (2marks)
- d) Colour the layer with molten and hard rock orange. (2marks)



ROCK TYPES

- There are three different type of rocks, Sedimentary, Igneous and Metamorphic.
- Read the statements below and use your knowledge of rocks to decide which are true and which are false. Put a **tick** beside the **true** statements and an <u>x</u> beside the <u>false</u> statements.
- If you think the statement is false write the correct statement below it

1.	Slow cooling of igneous rocks produces small crystals.
2.	Igneous rocks form mainly beneath the sea.
3.	Metamorphic rocks have been changed by great heat or pressure.
4.	Rocks formed by the cooling of magma are igneous.
5.	Sedimentary rocks are bits of dead plants, animals and other rocks.
6.	Igneous rocks have fossils.
7.	Sedimentary rocks are very hard.
8.	Metamorphic rocks are the most common in the British Isles.
9.	Limestone is a sedimentary rock.
10	.Marble was once limestone so is a sedimentary rock.





ODD ROCK OUT

By now you should really know your stuff, and be budding Geologists! Look at the sequences of words below and work out which word is the odd one out in each sequence and why?

1.					
	IGNEOUS	GRANITE	FOSSIL		
	e out DN				
2.	SANDSTONE	SCHIST	CLAY		
	e out DN				
3.	HEAT	PRESSURE	PI ANTS	<u> </u>	I
				<u> </u>	l
	e out)N				
4.	LAYERS	MARBLE	LIMESTONE		
Odd on	e out				'
	DN				

Weathering and Erosion 2. Freeze-thaw Weathering 1. Onion Skin Weathering Rocks can be broken by weathering when: Draw a diagram to explain how onion skin 1. Water gets into cracks in rocks. weathering occurs and use these key words to label it 2. The water in the cracks turns to ice and expands. Sun Heat Temperature rise 3. The rocks split into smaller pieces. Temperature drop Outer layers Expand What else must happen during this part of this Contract weathering process? Tick two boxes. The temperature stays the same. The temperature falls below freezing point. The temperature stays above freezing point. Expansion forces the cracks in the rock to close. Expansion forces the cracks in the rock to open. Expansion forces all of the water out of the cracks. 3. Acid Rain Weathering, Erosion, Neither? 4. Explain how acid rain occurs & how it Decide if the following are Weathering, Erosion or weathers rocks and buildings. Neither. Eg. 1. The stones in an old wall have been pushed apart by weeds _____ 2.An old granite gravestone is still smooth and shiny 3.A clay flower pot in the garden has crumbled and broken into pieces during winter. 4. Some soil has been washed from a flower bed by rain

Uses of Rock

There are many ways we use rocks, label the picture of the house below with all the uses of rock in the and around the house.

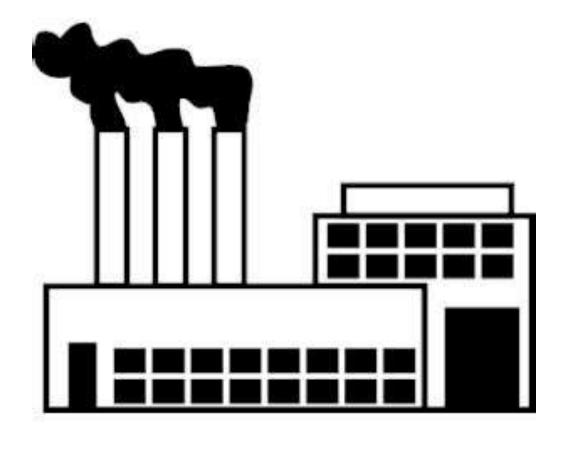






Test Yourself- Rocks

1.	What are the 3 types of rock?
2.	What type of rock are the following: Sandstone, limestone, granite, basalt, slate
3.	What are the two conditions needed for a metamorphic rock to form? and
4.	Which metamorphic rock is formed from limestone?
5.	Why wouldn't you find any fossils in igneous or metamorphic rocks?
6.	You find a rock containing crystals. What type of rock would it most probably be?
7.	What is molten rock that is inside the Earth called?
8.	What is molten rock that is outside the Earth called?
9.	Granite is an igneous rock and contains large crystals. Did it cool down slowly or quickly?
10.	In the rock cycle what causes igneous rock to become sedimentary rock?
11.	In the rock cycle again what causes the sedimentary rock to become metamorphic rock?
12.	.Gravestones are usually made out of marble or granite instead of limestone or sandstone. Why?
13.	.A piece of rock contains layers. What type of rock would it probably be?
14.	. What type of rock is found at the Giant's Causeway?
15.	.What is slate used for ?
16.	.What happens at a quarry?



Types of Jobs

There are four different categories of employment match the category to the correct definition and then to the correct picture

Primary

Involves making/manufacturing products

Secondary

Providing a service for someone

Tertiary

Specialist IT and Research and Design

Quaternary

Involves removing raw materials from the ground or sea











In the space below design a new drink for Coca Cola

Coca Cola

Inputs – what will go into your drink?

Processes- how will your drink be made?

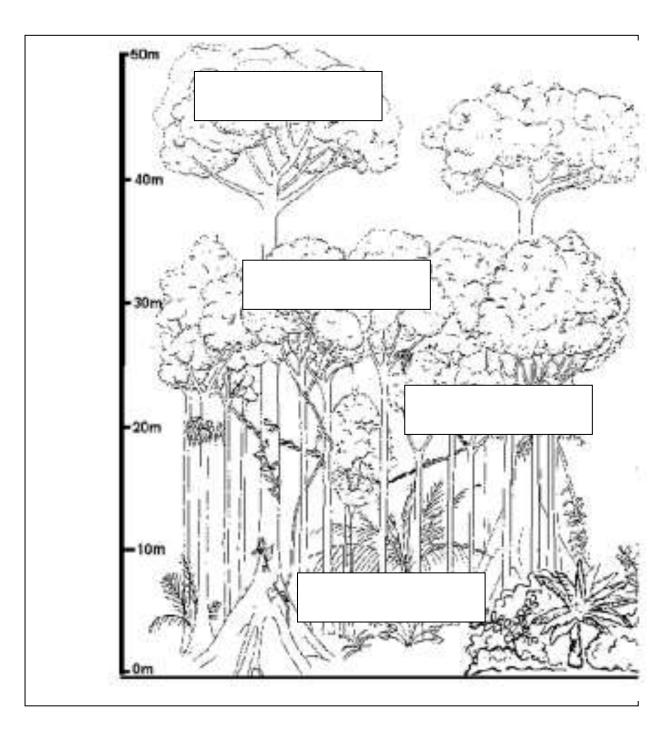
Outputs – what waste will be produced from your drink?





Layers of the rainforest

Label the diagram below that shows the layers of the rainforest.



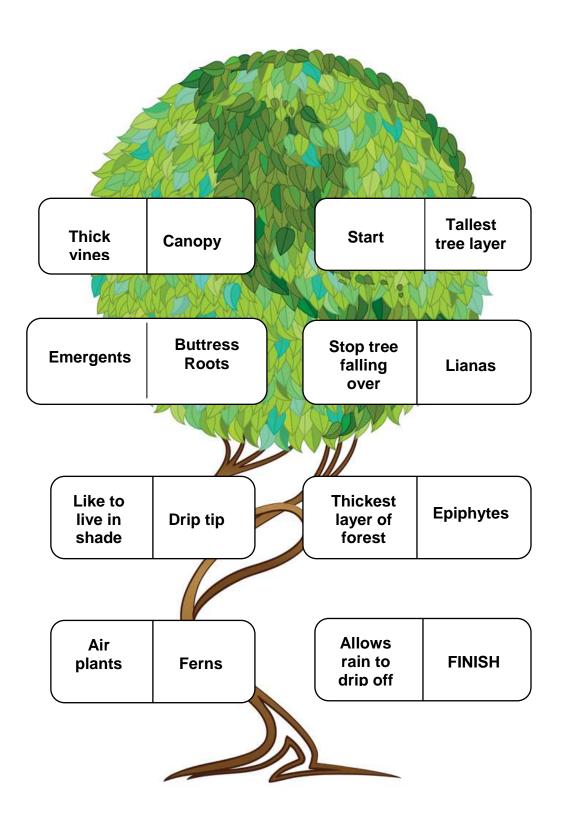
Write one fact below about each layer:

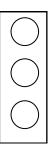
1	 	
2		
3		
4		



Rainforest Dominoes

Pick one colour for each key term and then use that colour to match it to its definition.





Sentence Starters – Rainforest Tree

```
Alive.
```

Wind. Leaves.

Sunlight. Humidity. Leaf Cutter Ants.

Canopy. Macaw. Tree Frog. Predator.

Rain. Tropics. Blue Morpho Butterfly. Toucan

Equator. Orchids. Howler Monkey. Sloth.

Chameleon. Habitat. Bromeliad. Prey.

Primates. Anaconda. Coast Rica. Vines. Ferns.

Camouflage. Hummingbird. Orangutan.

Mushrooms. Mahogany Tree. Branches. Flies. Palm Tree. Wet.

Poison Dart Frog. Buttress. Flooded Amazon. Fresh Water.

Bats. Grasshoppers. Colors. Earthy. Bug Bites. Turtles. Rivers.

Piranhas. Murky Water. Lemur. Jaguar. Lianas. Scientists. Madagascar. Pitcher Plants. Termites. Giant Owl Butterfly.

Fungus. Orb Spiders. Flowers. Thick. Damp. Nuts. Drip Tips.

Decomposers. Amazon. Understory. Boa. Cockroaches. Caves.

Webs. Borneo. Rafflesia. Human.

Green. Hot. Roots. Fruit. Tall.

Threatened, Birds.

Soil. Bird Calls.

Sounds. Seeds.

Gecko. Dirt.

Epipytes.

Nutrients.

Energy.

Weather.

Fresh.

Toads.

Bacteria.

Trees. Bugs.

Food. Exotic.

Tails. Earth.

Sweat. Iguana. Bees.

Layers. Eggs. Oxygen.

Minerals. Rocks. Decay. Moths. Ground. Life. Protection. Learn.

Using the Rainforest tree above write 10 sentences on the next page and underline in the sentence when you use a keyword

For example: The rainforest is warm and wet all year round so there is a high level of humidity.

Sentences

1.	
2.	
•	
3.	
4.	
_	
5.	
6.	
-	
7.	
8.	
9.	
-	
10.	



Causes and effects of Rainforest destruction

Complete the table below

Ways of Rainforest destruction	Causes	Effects
destruction		
	Cutting down of trees in the rainforest for furniture and wood.	When trees are cut down, rain washes away the soil. CO2 emissions are released into the air
	Grazing of cattle in the rainforest to make money.	The biggest cause of deforestation. Trees are burnt to clear areas. Trees and plants destroyed
	Digging to extract gold and other minerals. Heavy machinery blasts at the river banks.	
		Water floods large areas of the rainforest. Trees and animals are destroyed

