



А

Ash: ceniza

В

Basin: Cuenca Bay: Bahía Bear: oso/a Between: entre

С

Channel: canal Cone: cono volcánico Continental slope: talud continental Continental shelf: plataforma continental Core: núcleo Crust:corteza

D Deep: profundo/a Due to: debido a

E

Earhquake: terremoto Eroded: erosionado

F

Fault: falla Fissure: fisura Flat: llano/a Floor: suelo Fold: pliegue

G

High: alto/a I

inner: interno

J

Kind: tipo, clase

L

Layer: capa. Land: tierra. Lower: más bajo M Magma: lava Mantle: manto Measure: medir Mouth: desembocadura Mud: fango, lodo, barro

Ν

0

Opening: apertura outer: externo ocean floor: suelo oceánico oceanic ridge:dorsal oceánica. oceanic trench: fosas submarinas Pipe: chimenea

Q

R Release: liberar, expulsar Relief: relieve

S

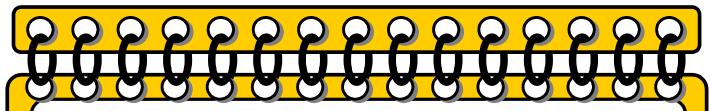
Salt: salado/a Scientists: científicos Shallow: poco profundo Slower: más lento Smoke: humo Source: nacimiento de un río Steep: escarpado Sudden: repentino Surface: superficie

Г

That: que Thin: fino/a Top: encima Tributary: afluente

V Vent: respiradero

W With: con



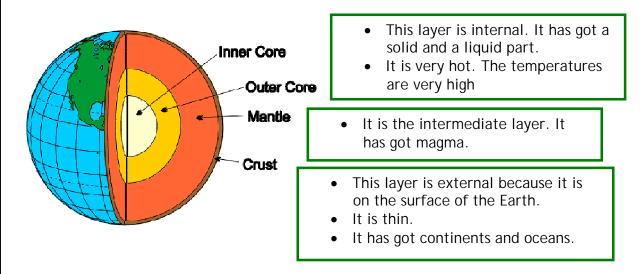
O.-INTRODUCTION

The German scientist Alfred Wegener developed the CONTINENTAL DRIFT theory in 1912. His theory says that there was only one continent, called Pangea, which broke up millions of years ago



1.-THE INTERNAL STRUCTURE OF THE EARTH

The Earth is made of crust, mantle, outer core and inner core.

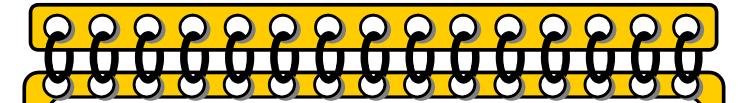


2.- THE EARTH'S CRUST

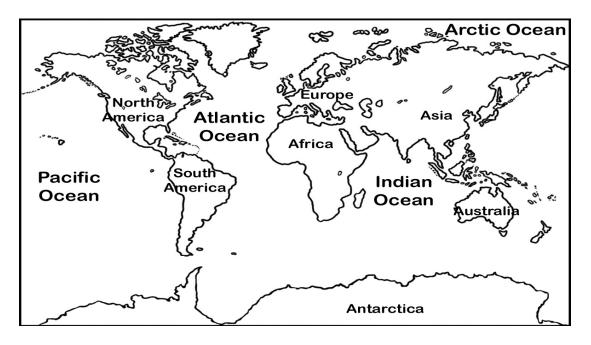
The Earth's crust has a solid part and a liquid part.

The solid part refers to the continents. There are six continents. Their names are Asia, America, Africa, Antarctica, Europe and Oceania.

The liquid part refers to the oceans. There are five oceans. Their names are Pacific, Atlantic, Indian, Southern and Artic.



Oceans are massive bodies of salt water. There is connection between them.



The Pacific is the largest ocean. It is very deep. It is between Asia and America.

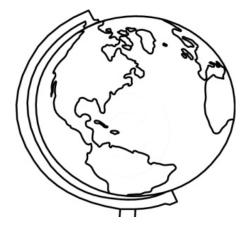
The Atlantic is the second biggest ocean in the world. It is between the continents of America and Europe and Africa.

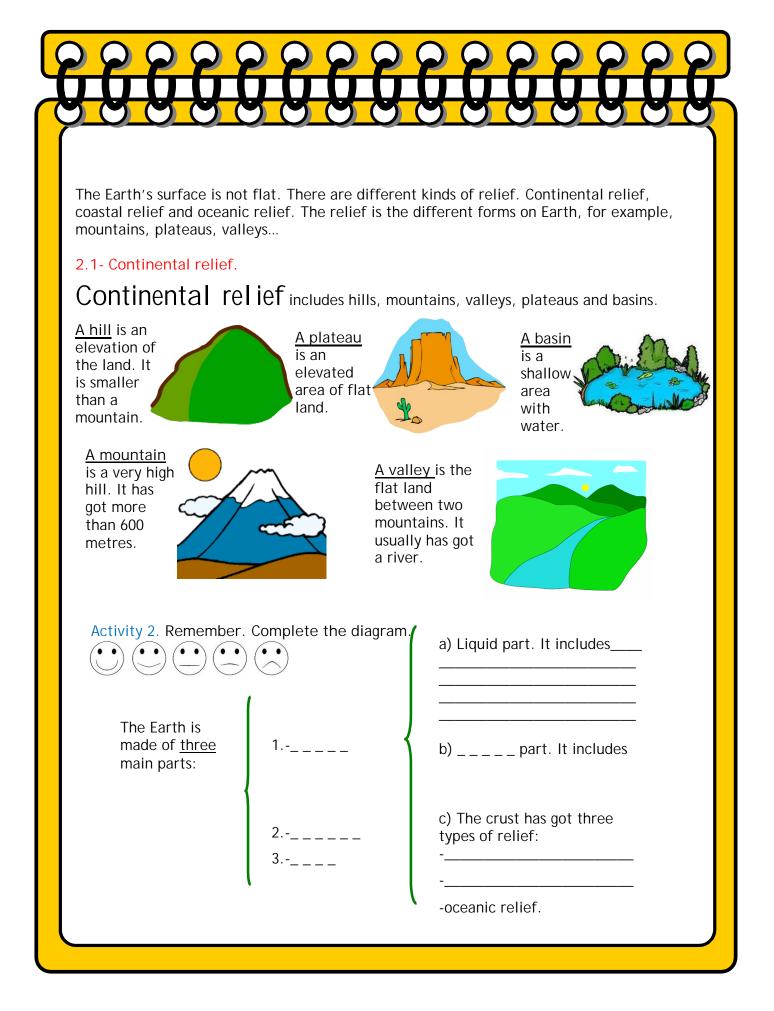
The Indian Ocean is the third biggest ocean on Earth. It is between Africa, Asia and Australia. It is in the south of the Equator.

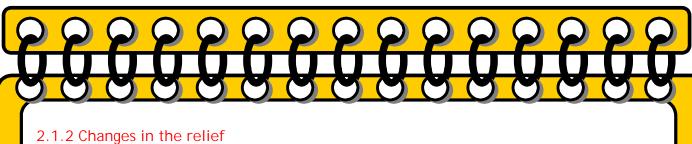
The Arctic Ocean is small, cold and shallow. It is in the North Pole in the Arctic circle. Polar bears live on the Arctic ice.

Activity 1. The Earth's crust has got a liquid part and a solid part. Colour the land brown and water blue.







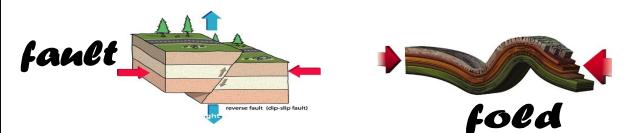


z. r.z onanges in the rener

The relief of the Earth can change due to:

Internal forces:

The Earth's crust has got tectonic plates. They move continually. The collision of the plates produce undulations and fractures. Their names are folds and faults.



External forces:

There are two external forces:

Erosion refers to the fragmentation of dissolution of rocks, soil and mud. The causes of erosion are temperature, water, wind and human beings







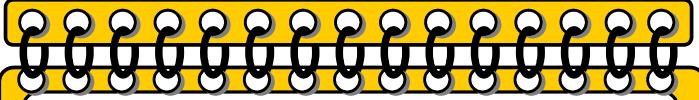


Sedimentation: refers to the accumulation of sediment (sand, mud or eroded rocks)

Activity 3. Complete with the words in the box.

responsible fault land (X2) fold

- A is an undulation in the
- A is a fracture in the
- Water, wind, and temperature are the for erosion.



2.2 Coastal Relief

Coastal relief includes cliffs, island, beach, cape, bay, archipelago and gulf.

<u>A cliff</u> is a rock formation. It is very high and steep.



An island is a piece of land surrounded by water.



<u>A gulf</u> is the part of the ocean partially surrounded by land.



<u>A bay</u> is similar to a gulf but it is smaller.



An archipielago is a group of many islands.

<u>A beach</u> is a flat area covered with sand. it is surrounded by the sea.

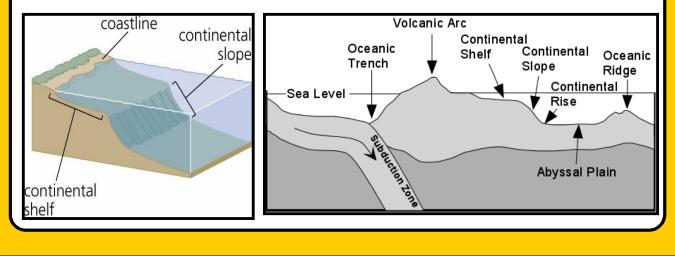


2.2 Oceanic Relief

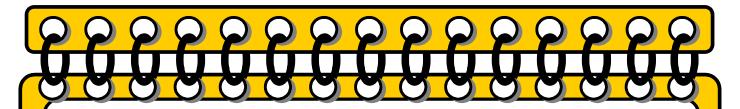
Oceanic relief includes continental slope, continental shelf, oceanic ridges and oceanic trenches

<u>Continental slope is</u> a place which goes to deep parts of the ocean. <u>Continental</u> <u>shelves</u> are places near the coast. They are submarine plateaus with more than 150 metres. Oceanic
ridge is aOce
tre
trerow or grouplarg
of submarineof submarinedep
mountains in
the oceanfloor.

Oceanic trenches are large, deep depressions in the ocean floor



l r						r the	e co		ct co islan		n.	C) cont	iner	(-	shel	Ves) () hill			1
	continental slope oceanic ridge basin oceanic trenches							beach plateau					continental shelves hill mountain cliff archipelago bay gulf									
	<u>CO</u>	NTIN	IEN	ΓAL	REL	<u>IEF</u>			<u>CO</u>	AST	AL	RELI	<u>EF</u>			<u>(</u>	DCEA	<u>ANIC</u>	RE	<u>LIEF</u>		
Q	S	Р	0	Т	Т	Ε	R	Y	Н	Ν	F	С	Р				astal •		ief			
B M	V X	W F	F F	L B	U T	G N	F O	F O	E P	C R	A A	E H	F U	С	e	ha	ab				-	• •
1	S	F	N	N	F	A	E	В	С	R	U	V	С	-	fç	J	lL			-		
L K	D H	L	T V	E T	N H	E R	C I	H A	N R	U F	F S	R F	U D									
P	J	C	D	0	L	P	E	С	Т	C	T	C	N		d	US	sir		-	-		
0	H	E	F	R		V	F	H	F	U	0	V	A	C	nia	roia	oel					
E F	T V	S E	F	E V	N U	E G	K F	C E	۱ F	H E	N E	T V	L S			F	f					
V	F	A	F	F	F	N	R	U	H	R	Y	H										
F	G	N	С	V	H	U	L	F	S	A	U	Р	F	2		O	a					
0	V	U	Η	С	A	E	B den	E	B	H r	F	F	V			\square		ſ		ר	 _	\mathbf{r}



3.-RIVER

A river is a body of fresh water. It is always in movement. Its destination is a sea, an ocean, a lake or another river. A tributary river is when a river opens into another river. A river has got three parts:

The source is where it begins.The mouth is the path of the river between the mountains and the sea.The channel is the deepest part of the river.



And three courses:

-High course: it is the first part of a river. The water descends with energy. The erosion is very strong.

- Middle course: the river is lower and slower. It transports the eroded materials.

- Low course: it is the final part of a river. It usually ends in a sea.

4.-NATURAL HAZARDS

The movement of tectonic plates can produce volcanoes and earthquakes.

4.1 VOLCANOES

A volcano is a fissure in the earth's crust. It has got magma, gases, smoke, rocks and ashes. A volcano is very dangerous. It has got four parts: vent, pipe, cone and crater.

-The vent is the opening at the Earth's surface.

-The pipe is the tube that connects the interior and exterior of a volcano.

-The cone accumulates eruptive material.

-The crater is at the top of the volcano. It releases eruptive materials like ash and lava.

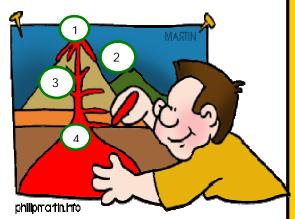


Activity 8. Colour as indicated:

-The cone of the mountain is brown.

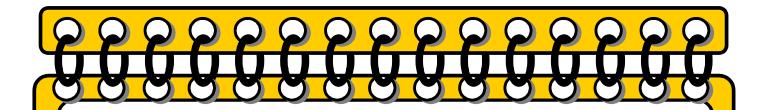
-The magma outside the crater is orange.

-The smoke is grey and white.



Activity 7. Look at the volcano and write its parts.

- 1.-
- 2.-
- 3.-
- 4.-



4.2 EARTHQUAKES

An earthquake is a sudden movement of the Earth. Seismographs measure the intensity of an earthquake. The famous Ritcher scale is a graphic representation of an earthquake. Scientists say that there are around 6000 earthquakes every year.

When an earthquake is produced on the ocean floor, it can produce a tsunami.



Activity 8. TRUE or FALSE. Correct the false sentences.

| $(\bullet \bullet)$ |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| \bigcirc | \bigcirc | \bigcirc | | \bigcirc |

1 The crust has got magma
2 Alfred Wegener said that the Earth was a unique continent many years ago.
4The Pacific ocean is cold and shallow.
5A valley is the flat land between two rivers
6A hill is higher than a mountain
7 Tectonic plates produce faults and folds.