REVIEW OF PRIMARY 4

NATURAL AND SOCIAL SCIENCE



Pedro Antonio López Hernández



INVERTEBRATES

Characteristics of invertebrates

- They <u>eat other living things</u>.
- Nearly all of them can move from one place to another.
- <u>They are oviparous</u> because they lay eggs.

Classifying of invertebrates

Invertebrates don't have

INTERNAL SKELETON.

Types of invertebrates

- Sponges





Jellyfish

- Worms





Arthropods

- Molluscs



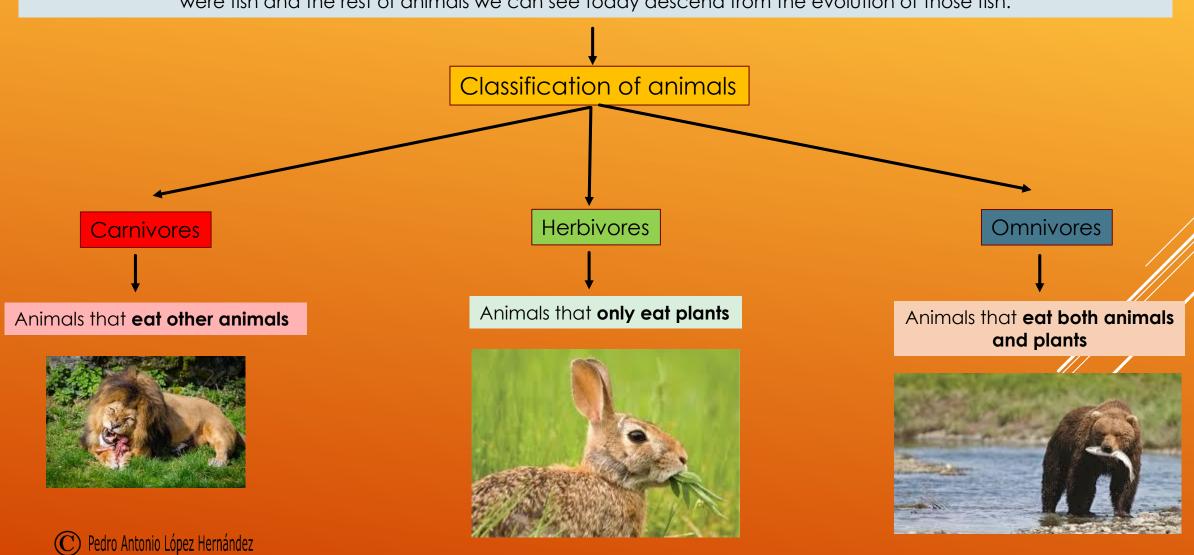
Echinoderms

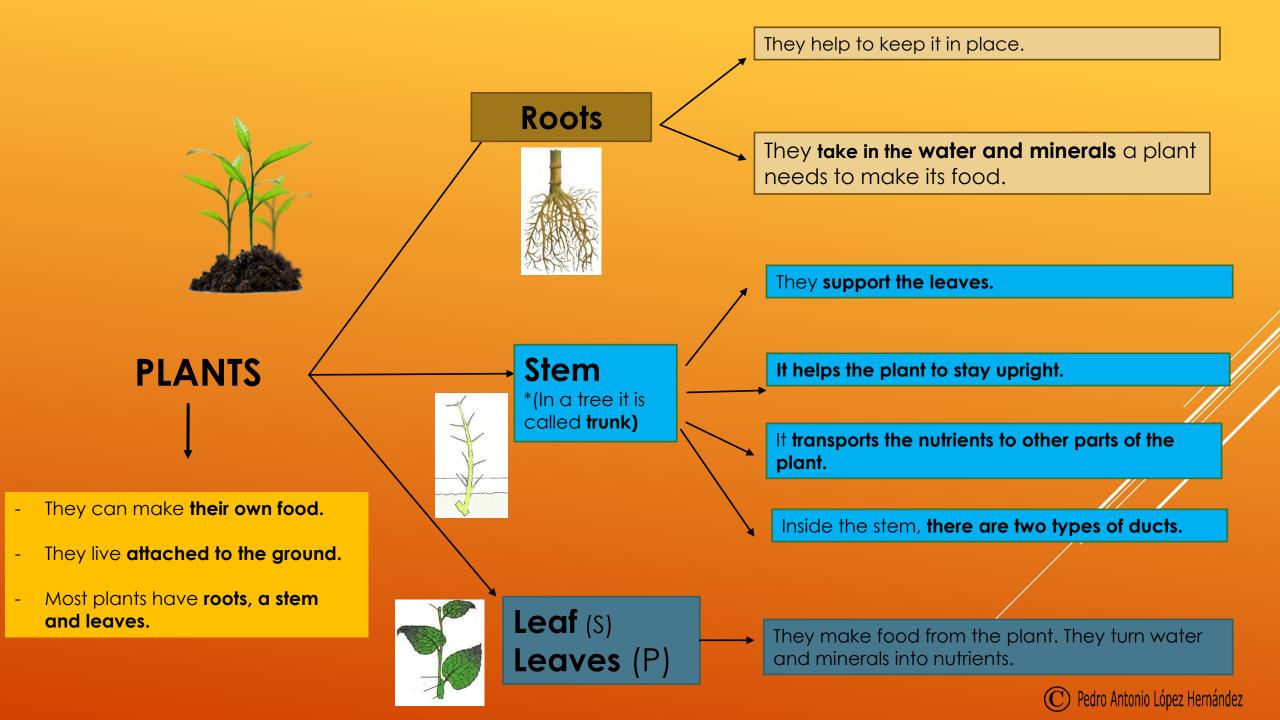


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ANIMALS EVOLUTION

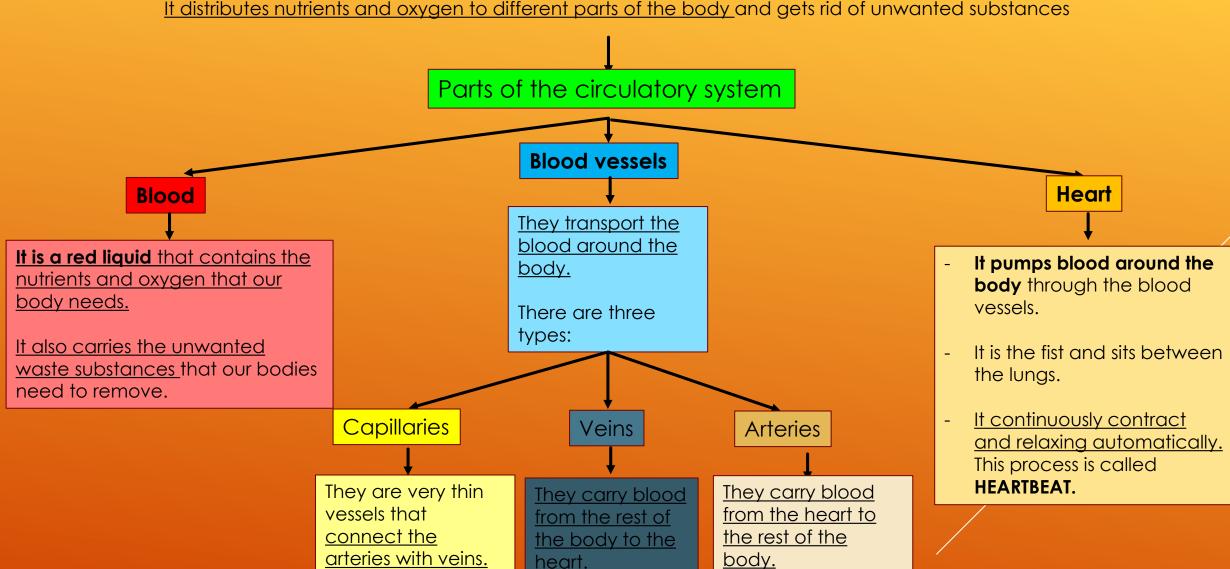
Some scientists found remains of dinosaurs that had wings and feathers. Nowadays, they know that the first animals on Earths were fish and the rest of animals we can see today descend from the evolution of those fish.





THE CIRCULATORY SYSTEM

It distributes nutrients and oxygen to different parts of the body and gets rid of unwanted substances



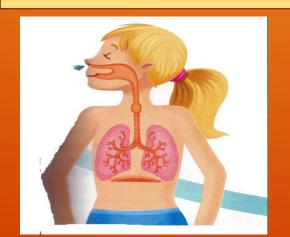
THE PROCESS OF RESPIRATION

Through this process, we take in oxygen from the air outside and we transport it to different parts of our body.

There are three states of respiration

Inhalation

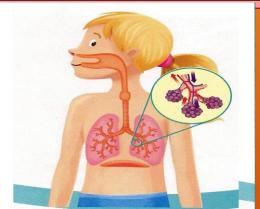
The diaphragm contracts, allowing the lungs to get bigger and fill up with air from the mouth and nose.



Gas exchange

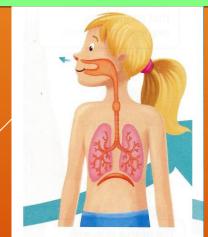
Oxygen that we breathe passes through the alveoli and into the blood.

At the same time, <u>carbon dioxide</u> passes from the blood into the lungs.



Exhalation

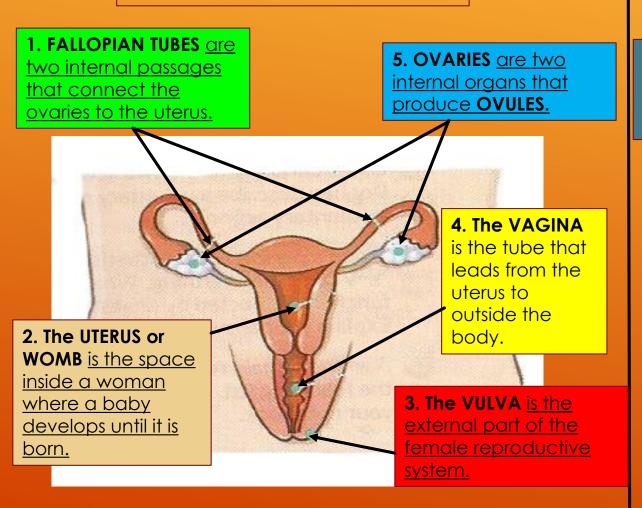
The diaphragm relaxes, causing the lungs to get smaller and push carbon dioxide out of the body.



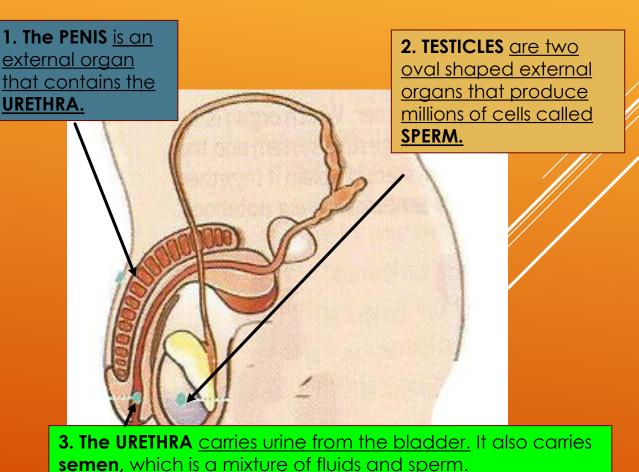
REPRODUCTION

<u>Human beings are able to make other human beings thanks to the reproductive system.</u> Men an women have different reproductive systems.

The female reproductive system



The male reproductive system



INTERACTION

It is a vital function of living things. Human beings have **five senses**: <u>sight, hearing, smell, taste and touch</u>.

We use our senses to detect stimulus around us and send messages to the brain.

1

Our sense organs receive information from our SURROUNDINGS.

This is called **STIMULUS.**

For example: It is raining



The NERVOUS
SYSTEM interprets
this information
and decides
how to respond.

For example:
The decision in to open an umbrella.



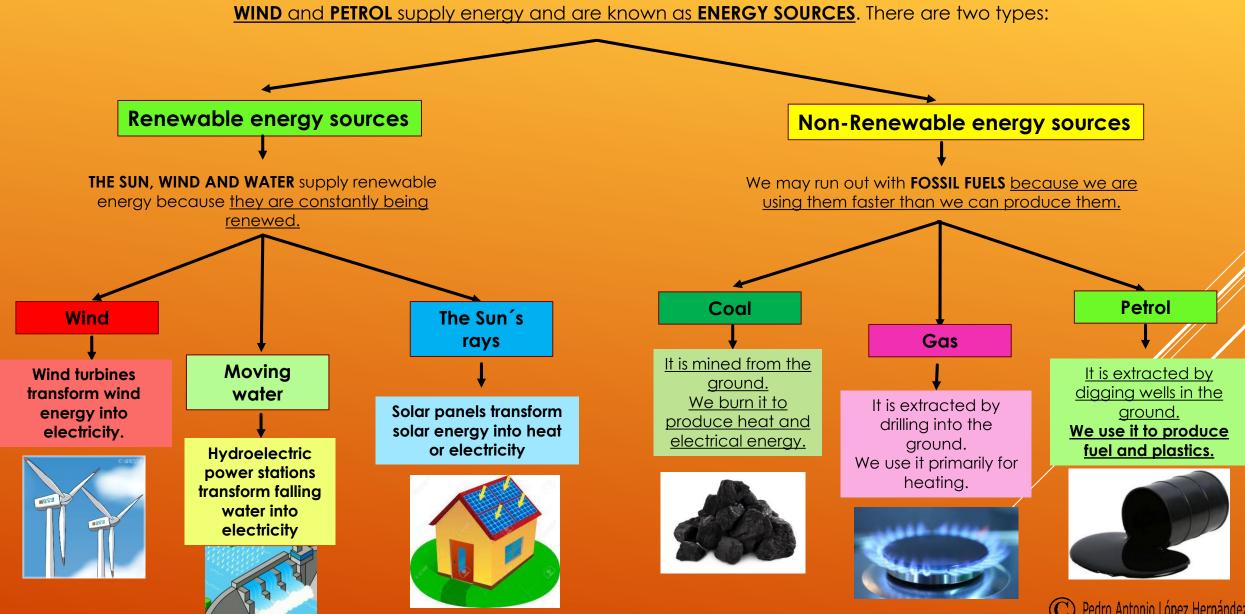


The
MUSCULOSKELETAL
SYSTEM allows us to
carry out those
responses.

3

For example:
Open the umbrella

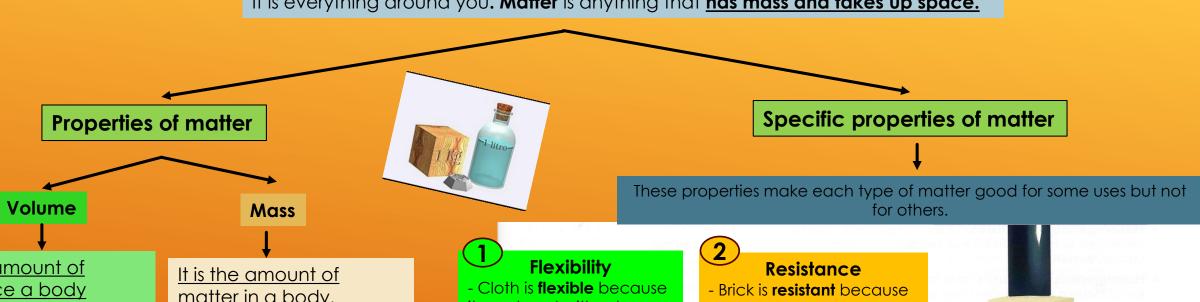
SOURCES OF ENERGY



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It is everything around you. Matter is anything that has mass and takes up space.



It is amount of space a body occupies.

We measure volume with LITRES, using instruments like **MEASURING JUGS** and CYLINDERS. We use different containers depending on the

amount of volume

we want to

measure.

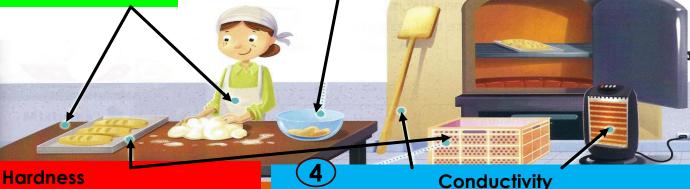
matter in a body.

We measure mass in **GRAMS** or **KILOGRAMS** using **SCALES** and BALANCES.

When the two pans are level, the two objects have the same mass.

- it can bend without breaking.
- Wood is **rigid** because it cannot bend.

it is difficult to break. - Glass is fragile because it is easy to break.



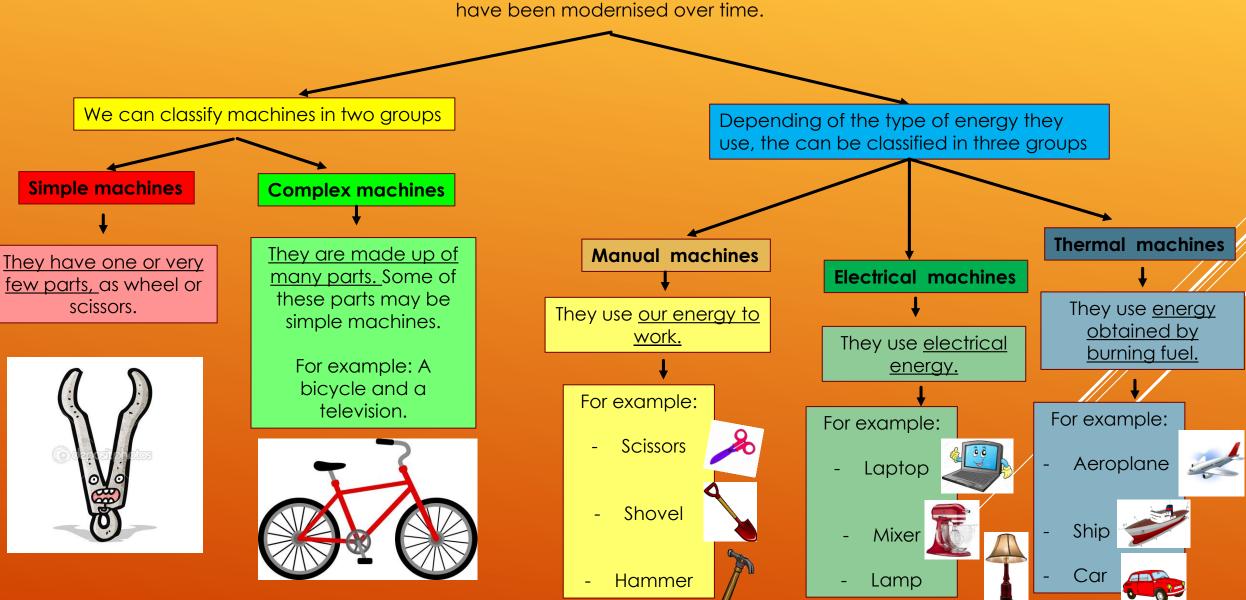
Hardness

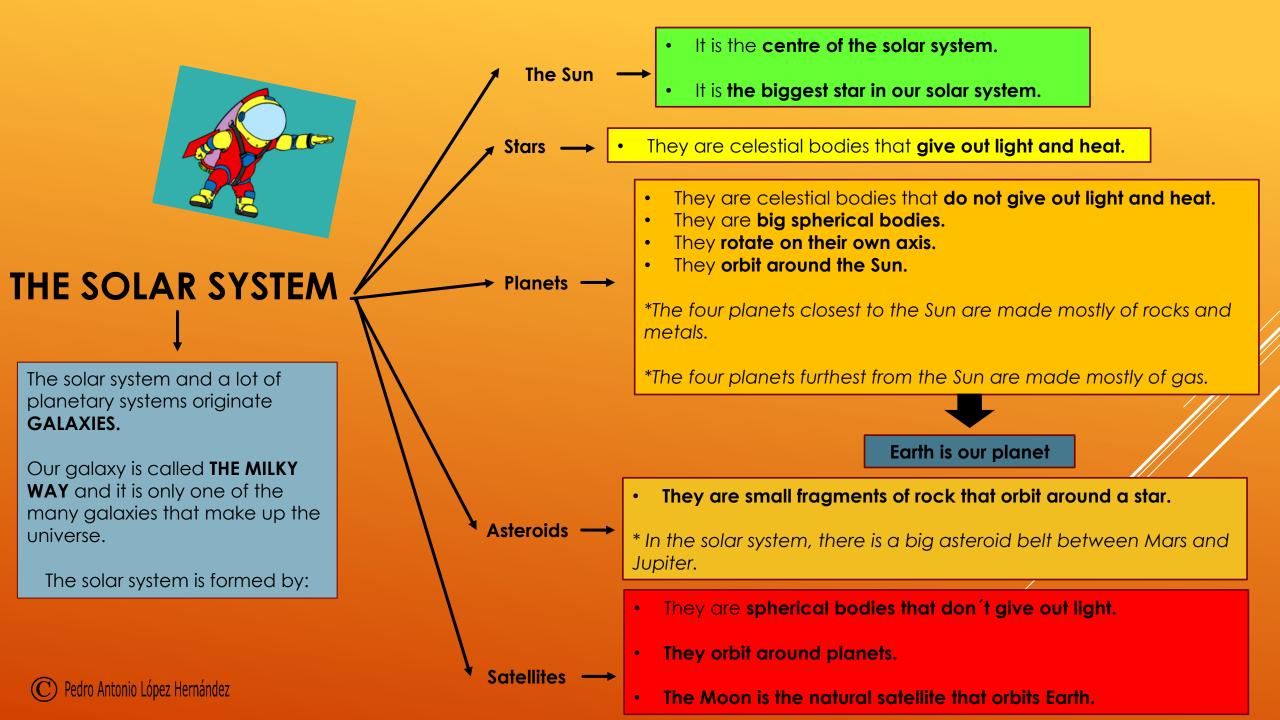
- Steel is **strong** because it is difficult to be scratched.
- Plastic is **soft** because it can be scratched.

- Wood is **insulating** because it does not conduct heat.
- Metal is heat **conductive** because it transmits heat.

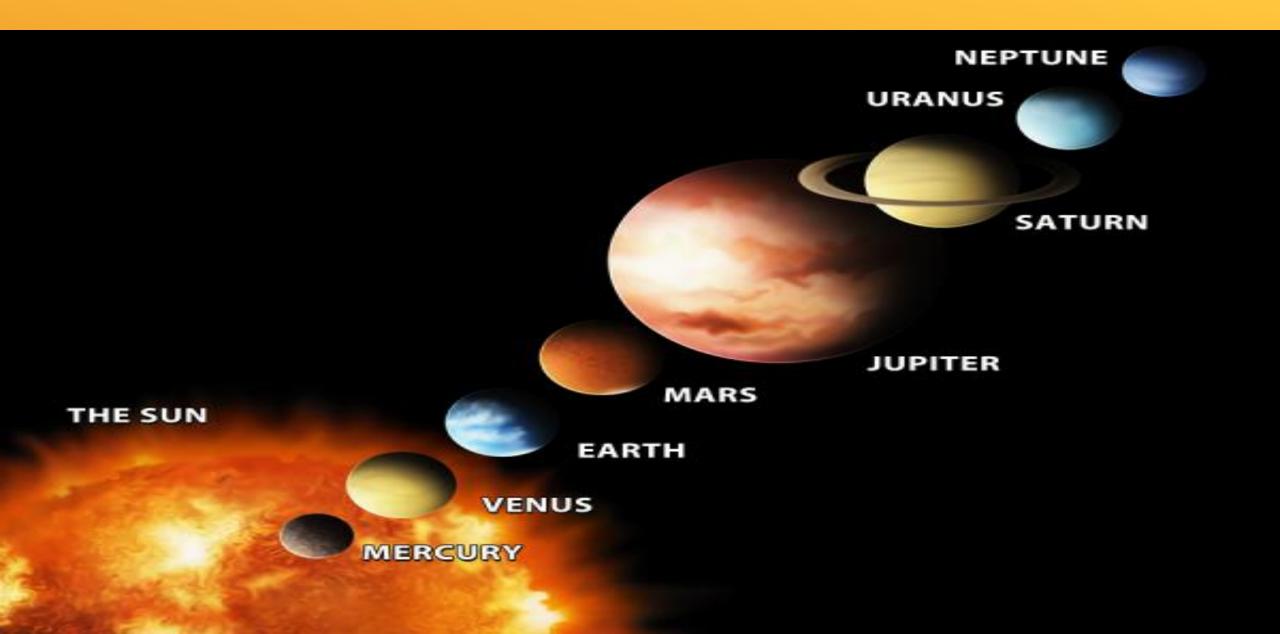
MACHINES

They are devices made of different materials. They help us complete tasks with less effort and make our lives easier. Machines have been modernised over time.





SOLAR SYSTEM



LAYERS OF THE ATMOSPHERE



The atmosphere is a mixture of gases that surround Earth and separate it from the rest of the universe. There are five different layers of the atmosphere.

1. TROPOSPHERE

It contains the most oxygen and water vapour. Most of the atmospheric phenomena that characterise the weather happen in this layer.

2. **STRATOSPHERE**

This is where the ozone layer is. It protects Earth from the Sun's harmful rays.

MESOSPHERE

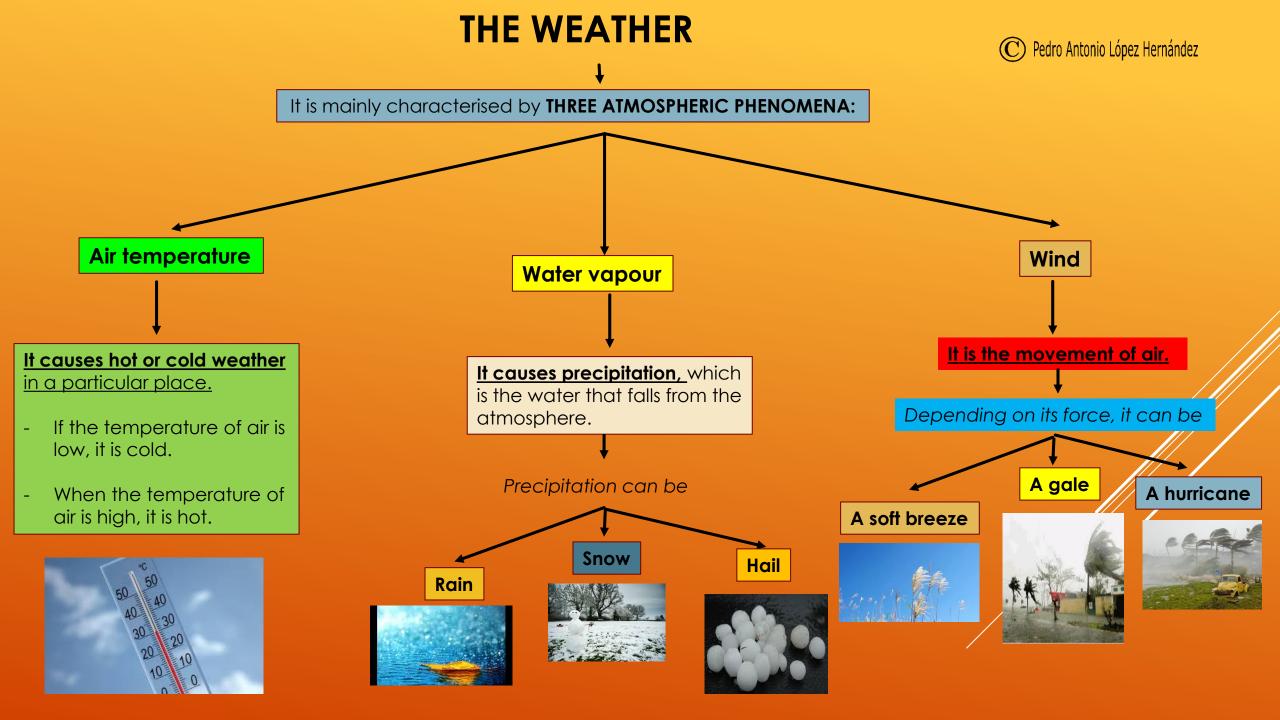
It is the coldest layer. Here we can see shooting stars.

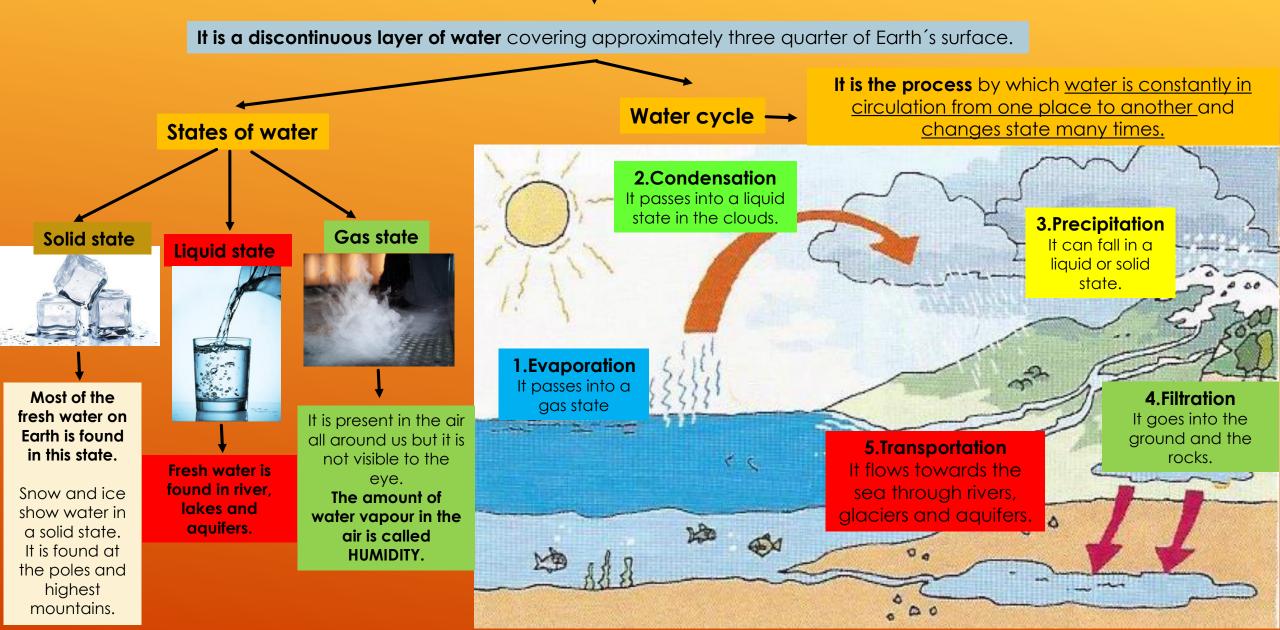
THERMOSPHERE

This is where the natural light display called aurora borealis happen.

EXOSPHERE

This layer protects us from objects found in outer space like meteorites





PARLIAMENTARY MONARCHY



1. HEAD OF STATE





The KING doesn't have power. His job is to represent Spanish citizens abroad and defend the Constitution.

3. GENERAL COURTS OR PARLIAMENT





It is made up of two assemblies: the CONGRESS OF DEPUTIES and the SENATE.

Representatives meet there to discuss and pass laws.

2. GOVERNMENT





It is chosen by the courts. It is made up of the **PRESIDENT OF THE GOVERNMENT and MINISTERS**.

They write and enforce the laws.

4. COURTS OF JUSTICE





JUDGES and other experts work in the courts of law. They interpret the laws and decide if laws are obeyed and respected.

PERIODS OF HISTORY

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Historical sources

Historians use **objects**, **images**, **documents** and **eyewitness accounts** to help them understand the past.

In Prehistory writing hadn't been invented. So to understand it we only have material remains or objects.

Historical time

To help us understand historical time we have created ways to measure it: YEARS (365 days), CENTURIES (100 years), or MILLENNIUMS (1.000 years).

Historians study the past by ordering historical events in time. The have divided history into stages called **PERIODS** to make this order easier to understand.



1. PALAEOLITHI C PERIOD

The first hominids appear

2.000.000 years ago



2. NEOLITHIC PERIOD

Development of agriculture and livestock

80.00 B.C.



3. THE METAL AGE

Objects are made of metal

5.000 B.C.



4. ANCIENT TIMES

The first writing appears.

3.500 B.C.



5. THE MIDDLE AGES

Fall of the Western Roma Empire

476 A.D.



6. THE MODERN AGE

Discovery of America.

1.492 A.D.



7. THE CONTEMPORA RY TIMES

The French Revolution

1789 A.D.