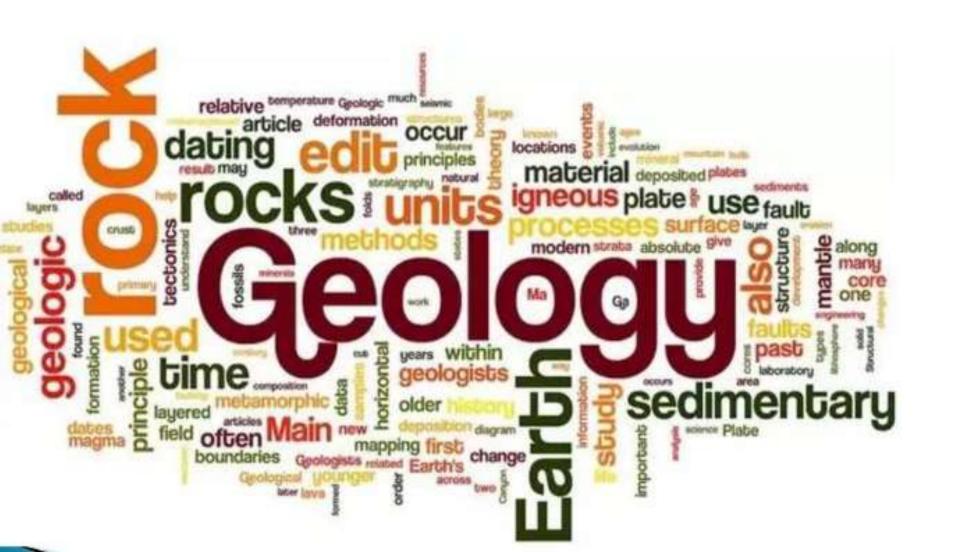
BASICS OF GEOLOGY

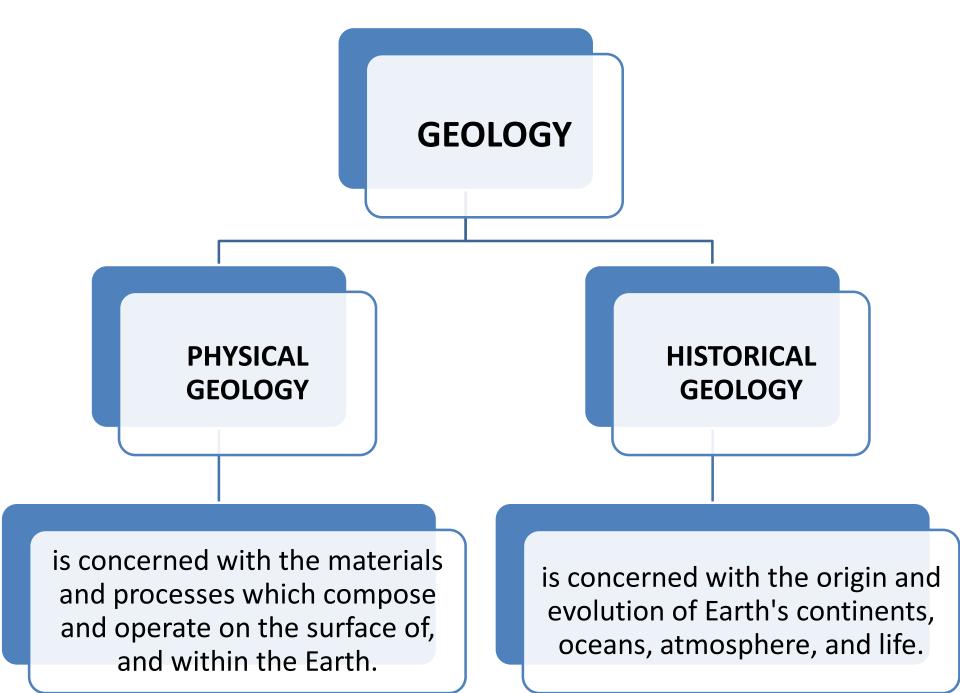


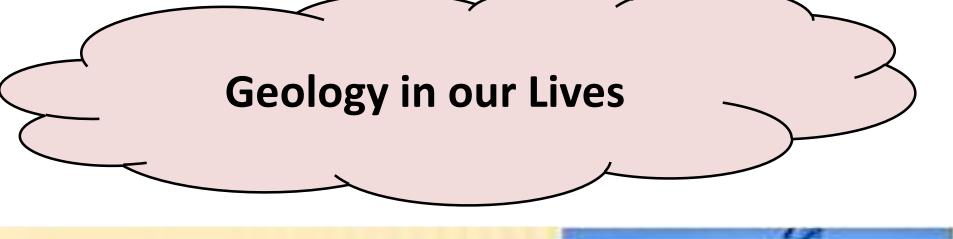
INTRODUCTION TO GEOLOGY

in Greek, Geo means Earth, Logos means Science) is a branch of science dealing with the study of the Earth.

It is also known as earth science.

The study of the earth comprises of the whole earth, its origin, structure, composition and history (including the development of life) and the nature of the processes.















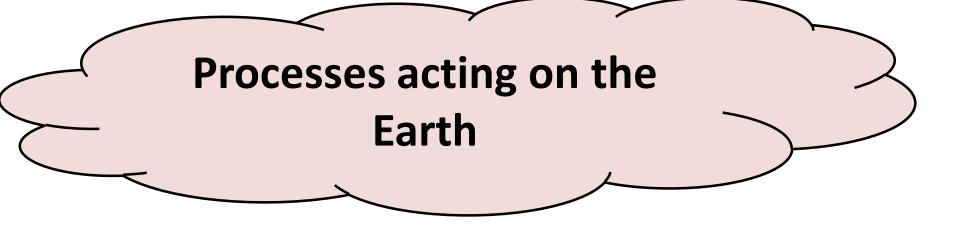


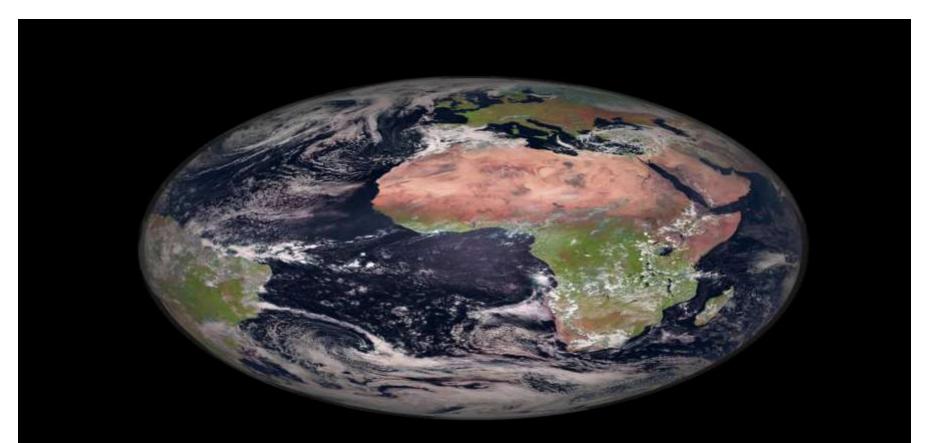
Geologists contribute their part to the nation through the discovery of new deposits of rocks and minerals of economic value





Geologists work to understand the history of our planet. The better they can understand Earth's history the better they can foresee how events and processes of the past might influence the future



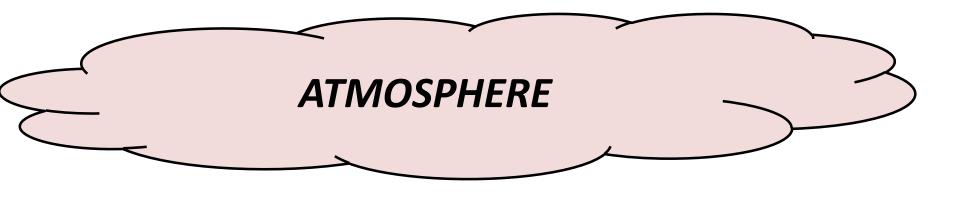


The Earth is a Dynamic system that is it undergoes constant changes with time both internally and on its surface. **Internal Processes** that originate deep within the Earth are termed as internal processes.





Surface processes are all those processes which take place on the earth's surface and result in sculpting the earth's surface. Most of the surface processes are driven by water, though wind, ice and gravity also play an important role.





is the body of air which surrounds our planet.

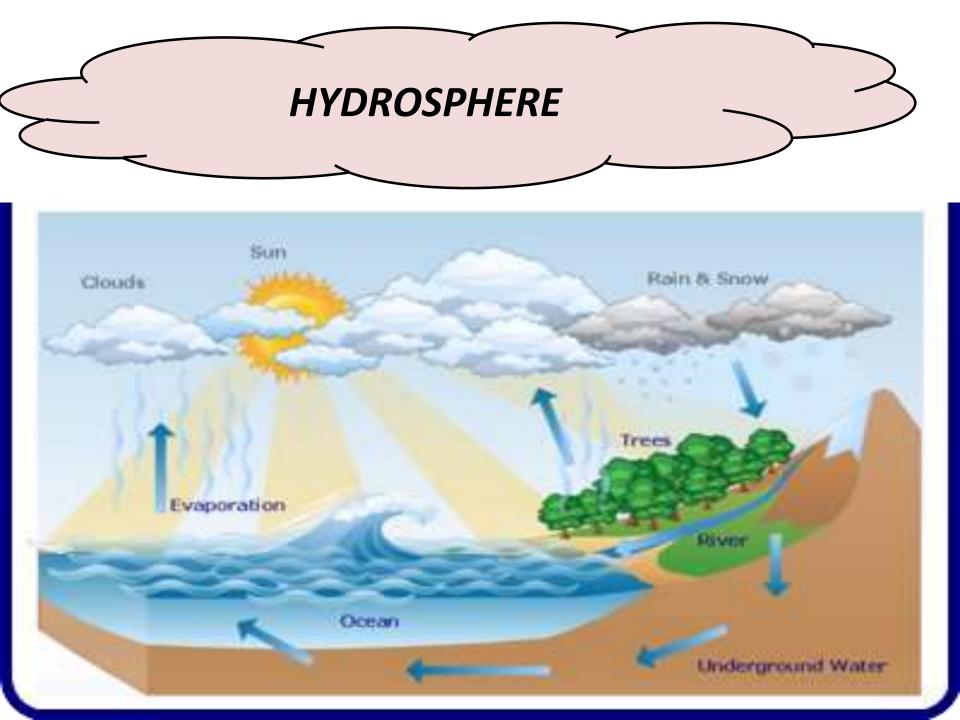
Most of our atmosphere is located close to the earth's surface where it is most dense.T

he atmosphere not only provides the air that we breathe but also acts to protect us from the Sun's intense heat and dangerous ultraviolet radiation.

Nitrogen 78%

Oxygen 20%

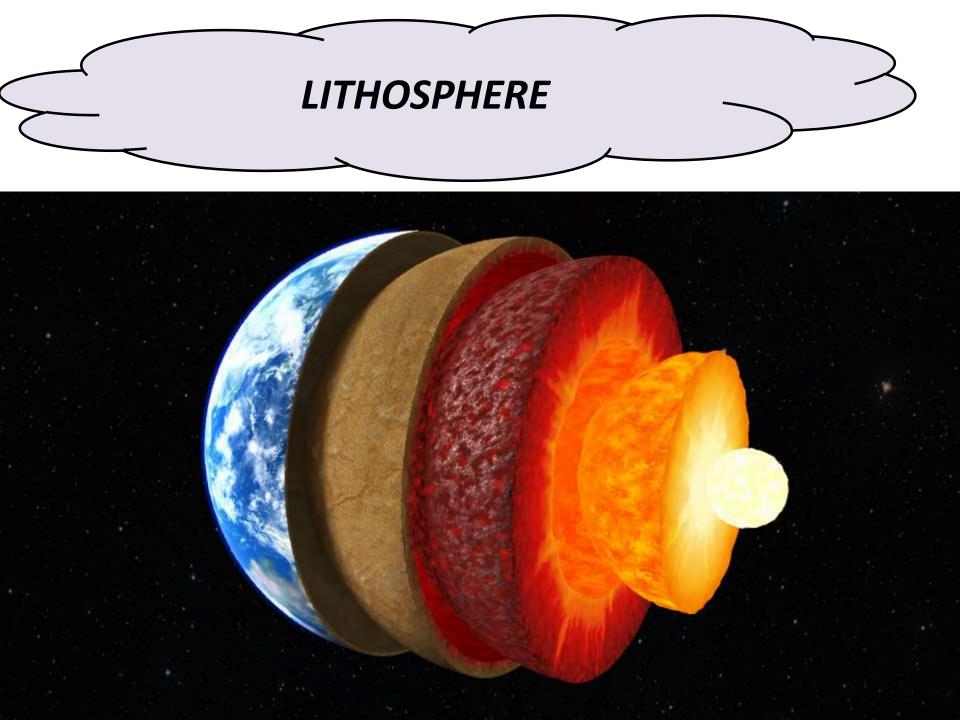
Carbon dioxide and other gases .03% Inert gases (mainly argon) .97% Water vapor 1%



is composed of all of the water on or near the earth.

This includes the oceans, rivers, lakes, and even the moisture in the air.

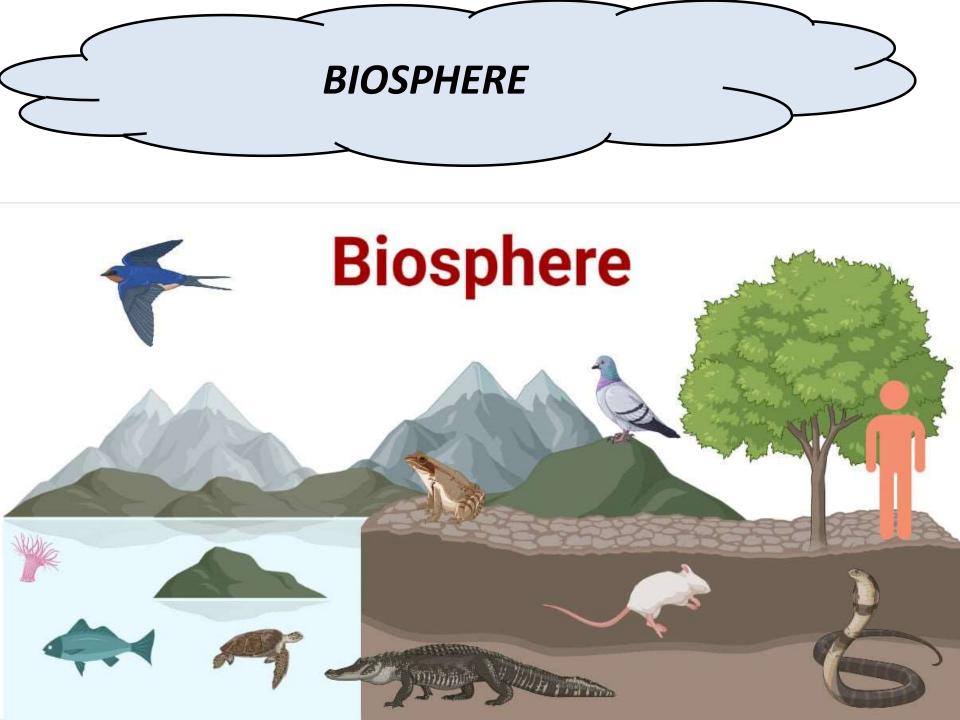
the oceans. The remaining three percent is in fresh water; three-quarters of the fresh water is solid and exists in ice sheets



Beneath the atmosphere and the oceans is the solid Earth, or lithosphere.

The lithosphere is the solid, rocky crust covering entire planet.

This crust is inorganic and is composed of minerals.



is composed of all living organisms. Plants, animals, and one-celled organisms are all part of the biosphere.

Most of the planet's life is found from three meters below the ground to thirty meters above it and in the top 200 meters of the oceans and seas.

