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STUDY NOTES

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CLASS- IX (All Section)

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**BIOLOGY**

**LESSON-05**

**CHAPTER: Natural resources**

**Today's Topic: Natural resources**

Life exists on earth due to its ambient temperature, water, food and energy from the sun.

**Lithosphere:** The outer crust of the earth is called lithosphere.

**Hydrosphere:** Sum of all water bodies is called hydrosphere.

**Atmosphere:** Air that covers the earth is called the atmosphere.

**Biosphere:** The life-supporting zone of the earth where the atmosphere, hydrosphere and lithosphere interact and make life possible is called biosphere.

It consists of biotic components-living things and abiotic components-non-living things like air, water and soil.

**Air:** It is of many gases like oxygen, nitrogen, carbon-dioxide, water vapour and other gases.

\* Nitrogen is used by plants for protein synthesis.

- \* Oxygen sustains life for respiration, combustion.
- \* Carbon-dioxide used by plants for preparing food by Photosynthesis.

**Water vapour:** provides moisture.

**Atmosphere:** Acts as a protective blanket around the earth. Maintains the temperature on the surface of earth. Winds are caused due to uneven heating of atmosphere, these winds maintains the pressure difference and causes cold and hot air, sea and land breeze, brings rain etc.

**Rain:** The clouds formed due to the evaporation of water condenses and precipitates as rain.

**Water:** Various sources of water are available i.e., surface water, underground water, snow, ice-bergs, water vapour in the atmosphere.

### **Uses of water:**

- \* Water is used for transportation.
- \* Sustain life
- \* Used by plants animals for life-processes. Water available for drinking should be conserved and used wisely

**Soil:** Soil is formed by very slow process i.e., by weathering of rocks. It consists of various nutrients. Plants grow in the soil, many microbe's homes is soil.

**Varieties of soil types are available:**

- \* Sandy soil
- \* Loamy soil
- \* Clayey Soil
- \* Black soil
- \* Red soil
- \* Alluvial soil
- \* Laterite soil

