

GRADE 9

LESSON 1: THE EARTH AS A SYSTEM

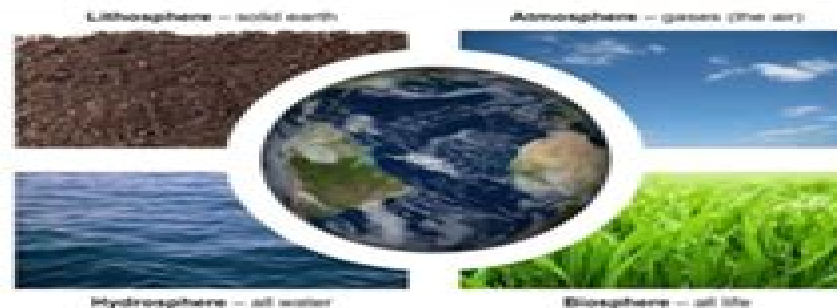
The Earth as a System

Introduction to Earth's System

The Earth is considered a system because it consists of multiple interconnected components working together. These components are grouped into four distinct spheres, each playing a crucial role in maintaining life and Earth's processes. These spheres are the *lithosphere*, *hydrosphere*, *biosphere*, and *atmosphere*.

Key Terms

- **System:** A group of interconnected components working together for a common purpose.
- **Lithosphere:** The Earth's solid crust and the upper part of the mantle, consisting of rocks, minerals, and soil.
- **Hydrosphere:** All the water on Earth, including oceans, rivers, lakes, glaciers, and underground water.
- **Atmosphere:** The layer of gases surrounding the Earth, primarily consisting of nitrogen and oxygen.
- **Biosphere:** All living organisms on Earth, including plants, animals, and microorganisms.



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