

1.2 Systems in Environmental Science

Key Concepts

- Concepts of open, closed, and isolated systems in terms of matter and energy flows are essential to understanding Earth's geosphere (lithosphere), atmosphere, and hydrosphere and their interactions in environmental and Earth's systems.

1.2.1 Open, Closed, and Isolated Systems

Define each system type by your own words. Then, write a brief (2-3 sentences) example of how you'd use each type. Give some real-world examples for each.

System	Description	Real-World Example
Isolated	no matter that the system is changed and nothing is added to it or removed.	None (no system can exist in an actual isolated state)
Closed	The amount of matter is conserved but energy can be added or removed.	the amount of matter in a closed system is constant
Open	it can be added or removed and matter can be added or removed.	matter can be added and removed from an open system
Hydrosphere	By the hydrosphere we can just define Earth's surface water bodies (oceans, lakes, rivers, etc.)	the Earth's water
Atmosphere	atmosphere's ability to store energy (heat) and matter (gases) and its interactions with other Earth systems.	all the things and processes that are in the atmosphere
Geosphere	the physical parts surrounding the planet.	physical parts surrounding the planet
Lithosphere	all the parts of the Earth's surface and in the atmosphere.	hydrophere (water) and a solid system

3 1 Systems In Environmental Science Answer Key

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