



SNS academy

**an International CBSE Finger Print School
Coimbatore**



Vocabulary

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| • Environment: All living (biotic) and non-living (abiotic) elements around us. |
| • Biotic components: Living organisms — plants, animals, microbes. |
| • Abiotic components: Non-living factors — air, water, soil, rocks. |
| • Lithosphere: Earth's land surfaces — crust and upper mantle. |
| • Hydrosphere: All water—rivers, oceans, lakes, groundwater. |
| • Atmosphere: The gaseous layer enveloping Earth. |
| • Biosphere: The global sum of all ecosystems – where life exists. |
| • Ecosystem: A community of organisms interacting with their environment. |
| • Pollution: Contamination harming the environment. |
| • 3Rs of sustainability: Reduce, Reuse, Recycle. |

Short-Answer Questions

❑ **Define environment.**

All the surroundings—biotic and abiotic—that influence living beings.

❑ **Differentiate lithosphere and hydrosphere.**

- **Lithosphere:** Solid land area.
- **Hydrosphere:** All forms of water on Earth.

❑ **What is an ecosystem?**

An ecological system where organisms interact with each other and their physical environment.

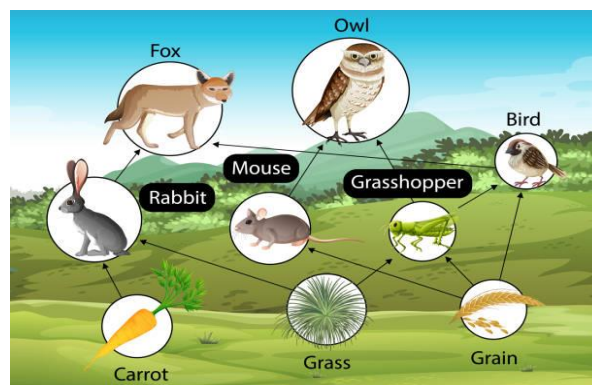
❑ **Explain the 3R approach.**

- **Reduce** waste generation.
- **Reuse** items when possible.
- **Recycle** materials into new products.

Differentiation

Concept Pair	Differences & Examples
Natural vs Human-Made Environment	Natural: Rivers, mountains, forests — occur without humans. Human-made: Roads, cities, dams — built by humans.
Producers vs Consumers (in Ecosystem)	Producers: Green plants; they convert sunlight into food. Consumers: Animals and humans who rely on plants or other animals for energy.

Picture-Based Questions



- **Label the trophic levels.**

A. Producers → Consumers (primary, secondary, tertiary).

- **Why shouldn't food chains be too long?**

A. Energy loss (about 90% per level) means insufficient energy for higher levels, limiting the chain's length.