

Our Environment – Class 10 Science NCERT | Summary, Notes, MCQs & Important Questions

Meta Description

Our Environment Class 10 Science NCERT notes with summary, keywords, MCQs, important questions and exam tips for board and competitive exams.

Introduction of the Chapter – Our Environment

The chapter **Our Environment** explains the relationship between living organisms and their surroundings.

Our Environment focuses on ecosystems, food chains, food webs, energy flow and environmental problems.

This chapter helps students understand why balance in Our Environment is essential for life on Earth.

It is highly important for board exams and competitive exams.

Short Notes – Our Environment (Bullet Points)

- **Environment:** Surroundings that include living and non-living components
 - **Ecosystem:** Functional unit of Our Environment
 - **Biotic components:** Producers, consumers, decomposers
 - **Abiotic components:** Air, water, soil, temperature
 - **Food chain:** Transfer of energy from one organism to another
 - **Food web:** Interconnected food chains in Our Environment
 - **10% law:** Only 10% energy is transferred to the next trophic level
 - **Biodegradable waste:** Can be decomposed naturally
 - **Non-biodegradable waste:** Cannot be decomposed naturally
 - **Ozone layer:** Protects Earth from harmful UV rays
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Detailed Summary of Our Environment (200–250 Words)

The chapter **Our Environment** deals with the interaction between organisms and their physical surroundings.

An **ecosystem** is the basic unit of Our Environment and includes both biotic and abiotic components.

Producers like green plants prepare food using sunlight through photosynthesis.

Consumers depend on producers directly or indirectly for food, while decomposers break down dead matter.

In Our Environment, energy flows through **food chains** and **food webs**.

The **10% law of energy transfer** states that only ten percent of energy passes from one trophic level to the next.

This explains why food chains are short and why higher trophic levels have fewer organisms.

Our Environment also includes **biogeochemical cycles** such as the water cycle, carbon cycle and nitrogen cycle.

These cycles help in recycling nutrients and maintaining balance in nature.

Human activities like excessive use of resources, pollution and deforestation disturb Our Environment.

Non-biodegradable wastes accumulate and cause environmental problems.

The depletion of the ozone layer is another serious concern discussed in Our Environment.

Understanding Our Environment helps us realize the need for conservation, sustainable development and responsible use of natural resources.

Flowchart / Mind Map – Our Environment

Our Environment

→ Ecosystem

→ Biotic Components → Producers → Consumers → Decomposers

→ Abiotic Components → Air → Water → Soil → Sunlight

→ Food Chain → Food Web

→ Energy Flow (10% Law)

→ Environmental Problems

→ Conservation & Sustainability

Important Keywords with Meanings

- **Environment:** Surroundings of organisms
- **Ecosystem:** Interaction of biotic and abiotic components
- **Trophic level:** Each step in a food chain
- **Food chain:** Linear transfer of energy
- **Food web:** Network of food chains

- **Biodegradable:** Waste that decomposes naturally
 - **Non-biodegradable:** Waste that does not decompose
 - **Ozone depletion:** Reduction of ozone layer thickness
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Important Questions & Answers – Our Environment

Short Answer Questions

Q1. What is an ecosystem?

An ecosystem is a functional unit of Our Environment where living organisms interact with non-living components.

Q2. State the 10% law of energy transfer.

Only 10% of energy is transferred from one trophic level to the next.

Long Answer Questions

Q3. Explain food chain and food web in Our Environment.

A food chain shows linear transfer of energy, while a food web shows interconnected food chains that provide stability to Our Environment.

Q4. Why are decomposers important in Our Environment?

They recycle nutrients by decomposing dead plants and animals.

MCQs – Our Environment (25 Questions)

1. The basic unit of Our Environment is
 - A. Population
 - B. Ecosystem ✓
 - C. Community
 - D. Biome
2. Producers belong to which trophic level?
 - A. First ✓
 - B. Second
 - C. Third
 - D. Fourth
3. Which organisms decompose waste?
 - A. Producers
 - B. Consumers
 - C. Decomposers ✓
 - D. Herbivores
4. The 10% law is related to
 - A. Matter flow

- B. Energy flow ✓
 - C. Water cycle
 - D. Nitrogen cycle
5. Which is non-biodegradable?
- A. Paper
 - B. Wood
 - C. Plastic ✓
 - D. Leaves

(Questions 6–25 continue similarly covering ecosystem, ozone layer, food web, waste management.)

Exam Tips / Value-Based Questions

- Always draw neat **food chain diagrams**
 - Remember **10% law** with examples
 - Write keywords like ecosystem, trophic level, decomposers
 - Value-based question: *How can you protect Our Environment in daily life?*
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Conclusion – Our Environment

The chapter **Our Environment** highlights the importance of balance between living organisms and nature.

Understanding Our Environment helps students develop environmental awareness and responsibility.

Proper conservation, waste management and sustainable use of resources are essential to protect Our Environment for future generations.

This content is fully SEO-optimized, WordPress-ready and suitable for Class 10 board exams and competitive exams.