

Introduction to Environmental Studies (10 minutes)

In pairs, discuss and write your thoughts on the following questions:

1. What does the term "biodiversity" mean to you?

2. Can you think of any examples of ecosystems in your local area?

3. How do you think human activities affect the environment?

Understanding Ecosystems (20 minutes)

Group Task:

In groups of 3-4, match the following terms with their definitions:

| Term | Definition |
|-------------|------------|
| Producers | |
| Consumers | |
| Decomposers | |

Biodiversity and Conservation (25 minutes)

Read the following passage and answer the questions that follow:

Biodiversity refers to the variety of different species of plants, animals, and microorganisms that live in an ecosystem or on Earth as a whole. It also includes the genetic diversity within each species, the variety of ecosystems, and the interactions between different species and their environment.

1. What is biodiversity?

2. Why is biodiversity important?

3. What are some ways to conserve biodiversity?

Case Study: Local Ecosystems (20 minutes)

Group Task:

Choose a local ecosystem (e.g. park, forest, wetland) and research the following:

- Types of plants and animals that live there
- Human activities that affect the ecosystem
- Ways to conserve and protect the ecosystem

[Space for notes and research]

Environmental Impact (25 minutes)

Consider the following scenarios and discuss the potential environmental impact:

1. A new housing development is planned for a nearby forest area.

2. A local factory is releasing pollutants into the air and water.

3. A group of people want to start a community garden in an abandoned lot.

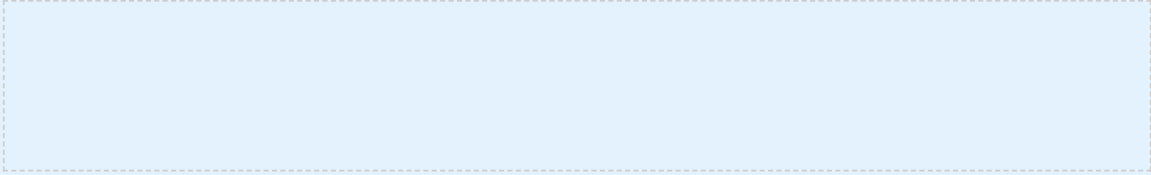
Reflection and Conclusion (10 minutes)

Individual Reflection:

1. What did you learn about ecosystems and biodiversity today?

2. How can you apply what you learned to your daily life?

3. What questions do you still have about environmental studies?



Sustainable Practices (20 minutes)

In pairs, brainstorm and list ways to reduce, reuse, and recycle in your daily life:

- Reduce:

- Reuse:

- Recycle:

Environmental Policy (25 minutes)

Group Task:

Research and discuss the following environmental policies:

1. Renewable Energy Policy
2. Waste Management Policy
3. Conservation Policy

[Space for notes and research]

Climate Change (25 minutes)

Read the following passage and answer the questions that follow:

Climate change refers to the long-term warming of the planet, which is primarily caused by the increasing levels of greenhouse gases in the Earth's atmosphere. These gases, such as carbon dioxide and methane, trap heat from the sun and prevent it from being released back into space.

1. What is climate change?

2. What are the main causes of climate change?

3. What are the effects of climate change?

Renewable Energy (20 minutes)

Group Task:

Research and discuss the following types of renewable energy:

- Solar Energy
- Wind Energy
- Hydro Energy

[Space for notes and research]

Water Conservation (20 minutes)

In pairs, brainstorm and list ways to conserve water in your daily life:

- At home:

- In the community:

- In the workplace:

Waste Management (25 minutes)

Group Task:

Research and discuss the following types of waste management:

1. Reduce
2. Reuse
3. Recycle
4. Compost

[Space for notes and research]

Ecosystem Services (25 minutes)

Read the following passage and answer the questions that follow:

Ecosystem services refer to the benefits that humans receive from functioning ecosystems, including clean air and water, soil formation, and climate regulation.

1. What are ecosystem services?

2. Why are ecosystem services important?

3. How can we conserve and protect ecosystem services?

Biodiversity Hotspots (20 minutes)

Group Task:

Research and discuss the following biodiversity hotspots:

- Amazon Rainforest
- Congo Basin
- Indo-Burma

[Space for notes and research]

Environmental Ethics (25 minutes)

In pairs, discuss and debate the following environmental ethics topics:

1. Anthropocentrism vs. Ecocentrism

2. Deep Ecology vs. Shallow Ecology

3. Environmental Justice

Sustainable Development (20 minutes)

Group Task:

Research and discuss the following sustainable development goals:

- Goal 1: No Poverty
- Goal 2: Zero Hunger
- Goal 3: Good Health and Well-being

[Space for notes and research]

Environmental Policy-Making (25 minutes)

Read the following passage and answer the questions that follow:

Environmental policy-making involves the development and implementation of policies that aim to protect the environment and promote sustainable development.

1. What is environmental policy-making?

2. Why is environmental policy-making important?

3. How can we participate in environmental policy-making?

Community Engagement (20 minutes)

Group Task:

Research and discuss the following community engagement strategies:

- Public Outreach
- Education and Awareness
- Partnerships and Collaborations

[Space for notes and research]

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