

# Environmental Science Chapter 17 Review Questions Answers

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Room 29

Date	AP Environmental Science Spring 2015 Calendar Mr. Bodas <a href="mailto:Brian.Bodas@sduhsd.net">Brian.Bodas@sduhsd.net</a> <a href="http://teachers.sduhsd.net/bbodas">http://teachers.sduhsd.net/bbodas</a> (858)755-0125 x2210	Homework
1/28	<b>Start of Second Semester</b> Intro to Ch. 15 Geologic Forces & Mineral Resources <b>Virtual Earthquake activity</b> <a href="http://teachers.sduhsd.net/bbodas/apes%20virtual%20earthquake%20activity%20rewrite%202010.pdf">http://teachers.sduhsd.net/bbodas/apes%20virtual%20earthquake%20activity%20rewrite%202010.pdf</a> <b>Video clip: Earth revealed "earthquake" or "Ring of fire"</b>	Begin Reading and outlining Ch 15  Thinking critically #2&4
1/30	Ch. 15 Mining and mineral resources, environmental impacts of mineral resources Mining techniques on line video clips (education portal) <b>Cookie Mining Lab</b> <a href="http://teachers.sduhsd.net/bbodas/cookie%20mining%20bodas.pdf">http://teachers.sduhsd.net/bbodas/cookie%20mining%20bodas.pdf</a> Mining Practices Discussion->surface, subsurface, pit, strip mines, acid mine drainage <b>Video: Rock Cycle</b> Rock classification lab-> igneous, sedimentary, metamorphic rocks <b>Review questions Ch. 15</b>	Finish reading and outlining Ch 15  <b>Read supplement 19 pg. S54 in back of text.</b> Thinking critically # 1 Project Q #2
2/3	<b>Finish rock classification lab as needed</b> <b>Video: Ring of Fire</b> <ul style="list-style-type: none"> <li>Ch. 15 vocab review activity</li> </ul> Environmental Impacts of mining ( heavy metal contamination, acid drainage, mining reclamation and remediation) Video Clip: California's natural mineral resources	<b>Read Supplement #11 in back of text pgs43-s45 and outline it!</b>  <i>Your Cookie Mining Labs are due.</i>
2/5	<b>Test Chapter 15 Mining and mineral resources</b> Intro. To non-renewable resources Video: End of Suburbia & Collapse of the American Dream <b>Eco Column Announcements/ EcoColumn Lab write up guidelines</b>	<i>Chapter 15 Outline, and Virtual Earthquake activity should all be completed and ready to hand in.</i>
2/9	<b>Chapter 16 -&gt;Non-renewable energy resources</b> Cartoon Guide to Environ->Chapter 10 <a href="http://teachers.sduhsd.net/bbodas/APES%20Ch.%2010%20cartoon%20guide%20energy%20doc.pdf">http://teachers.sduhsd.net/bbodas/APES%20Ch.%2010%20cartoon%20guide%20energy%20doc.pdf</a> <ul style="list-style-type: none"> <li>Environmental Science: "Soft Energy Paths" pg. 119</li> </ul> Discussion-> Coal, Oil, Natural Gas resources and extraction techniques <ul style="list-style-type: none"> <li>(Review Q's 17.1-17.4)</li> </ul> <b>Handout-&gt; Molar CO<sub>2</sub> emissions form fossil fuel (handout pg167-170) or CO<sub>2</sub> emissions graphing activity</b> <a href="http://teachers.sduhsd.net/bbodas/MOlnar%20co2%20emissions%20graphing%20activity%20acrobat%2009.pdf">http://teachers.sduhsd.net/bbodas/MOlnar%20co2%20emissions%20graphing%20activity%20acrobat%2009.pdf</a>	Begin reading Ch. 16  Thinking critically #1-4 Work on Ch. 16 outline

Environmental science chapter 17 review questions answers can serve as an essential tool for students and educators alike, providing a comprehensive overview of key concepts, theories, and applications surrounding environmental science. Chapter 17 typically delves into topics related to environmental policies, resource management, and the impact of human activities on ecosystems. This article will explore review questions and answers that encapsulate the critical elements of this chapter, enhancing understanding and retention of the material.

# Overview of Chapter 17: Environmental Policies and Resource Management

Chapter 17 often focuses on the frameworks that govern environmental policies and the management of natural resources. This section provides a backdrop for understanding how different policies are formulated, the stakeholders involved, and the impact of these policies on the environment.

## Key Concepts in Environmental Policies

1. **Sustainability:** The principle of meeting the needs of the present without compromising the ability of future generations to meet their own needs.
2. **Environmental Justice:** Ensuring that all communities have a fair chance to benefit from and be protected from environmental harm.
3. **Regulatory Frameworks:** Various laws and regulations that govern environmental practices, including the Clean Air Act and the Clean Water Act.
4. **International Agreements:** Treaties and accords that aim to tackle global environmental issues, such as the Paris Agreement on climate change.

## Review Questions and Answers

The review questions from Chapter 17 can help reinforce understanding of the material. Below, we present a selection of typical review questions along with their answers.

### 1. What is the primary purpose of environmental policies?

The primary purpose of environmental policies is to regulate human activities that impact the environment, promote sustainability, protect natural resources, and ensure environmental justice. These policies aim to mitigate pollution, conserve biodiversity, and manage natural resources effectively to safeguard the environment for future generations.

### 2. Explain the concept of sustainability and its importance in environmental science.

Sustainability refers to the capacity to endure in a relatively ongoing way across various domains of life. In environmental science, sustainability emphasizes the need to balance ecological health, economic viability, and

social equity. Its importance lies in preventing resource depletion, maintaining ecosystem services, and ensuring that future generations can enjoy a healthy planet.

### **3. What role do international agreements play in environmental management?**

International agreements are crucial for addressing transboundary environmental issues that cannot be effectively managed by individual countries alone. They facilitate cooperation among nations to tackle global challenges such as climate change, biodiversity loss, and pollution. These agreements often set binding targets, provide frameworks for action, and promote the sharing of technology and resources.

### **4. Identify and describe two major environmental laws in the United States.**

- The Clean Air Act (CAA): Enacted in 1963 and amended several times, the CAA regulates air emissions from stationary and mobile sources. It aims to protect public health and the environment from harmful air pollutants.
- The Clean Water Act (CWA): Established in 1972, the CWA aims to restore and maintain the integrity of the nation's waters by regulating pollutant discharges and providing assistance for water quality improvement.

### **5. What is environmental justice, and why is it significant?**

Environmental justice is the fair treatment and involvement of all people in environmental policies and decisions, regardless of race, color, national origin, or income. It is significant because marginalized communities often bear a disproportionate burden of environmental hazards, such as pollution and resource depletion. Ensuring environmental justice helps to promote equity and protect the health of vulnerable populations.

## **Strategies for Effective Environmental Resource Management**

Effective management of environmental resources involves various strategies aimed at preserving ecosystems and promoting sustainable practices. Below are some key strategies highlighted in Chapter 17.

## **1. Integrated Resource Management (IRM)**

IRM is an approach that considers various resources (land, water, air) holistically rather than in isolation. It aims to balance ecological, economic, and social factors in resource management. Key components include:

- Collaboration among stakeholders: Engaging local communities, government agencies, and private sectors in decision-making processes.
- Adaptive management: Continuously improving management practices based on new information and changing conditions.

## **2. Community-Based Resource Management (CBRM)**

CBRM emphasizes local community involvement in managing resources. It recognizes that local knowledge and practices can contribute significantly to sustainable resource use. Key elements include:

- Empowerment of local communities: Providing the necessary tools and authority to manage local resources.
- Sustainable livelihoods: Ensuring that local communities can sustain their livelihoods while conserving resources.

## **3. Conservation Strategies**

Conservation strategies are essential for protecting biodiversity and maintaining ecosystem services. They include:

- Protected areas: Establishing national parks, wildlife reserves, and marine protected areas to conserve critical habitats.
- Restoration projects: Initiatives aimed at restoring degraded ecosystems to their natural state.
- Sustainable practices: Encouraging practices such as organic farming, sustainable forestry, and responsible fishing to minimize environmental impact.

## **Challenges in Implementing Environmental Policies**

Despite the frameworks and strategies in place, there are several challenges in implementing effective environmental policies, which are often discussed in Chapter 17.

## **1. Political Will and Public Support**

- Lack of political will: Policymakers may prioritize economic growth over environmental protection, leading to inadequate policy enforcement.
- Public awareness and engagement: Effective policies require public understanding and support, which may be lacking in some communities.

## **2. Economic Constraints**

- Funding limitations: Insufficient funding for environmental programs can hinder their effectiveness and sustainability.
- Cost of compliance: Businesses may resist regulations due to perceived costs, leading to pushback against necessary environmental laws.

## **3. Scientific Uncertainty**

- Complexity of ecosystems: The intricate nature of environmental systems can make it challenging to predict outcomes of policies accurately.
- Emerging environmental issues: New challenges such as climate change and plastic pollution require adaptive and innovative policy responses.

## **Conclusion**

Understanding the environmental science chapter 17 review questions answers is vital for grasping the complexities of environmental policies and resource management. This chapter not only emphasizes the importance of sustainability and environmental justice but also highlights the strategies and challenges faced in implementing effective environmental practices. By reviewing these key questions and answers, students and educators can deepen their understanding of the critical issues that shape our planet's future. As environmental challenges continue to evolve, the knowledge gained from this chapter will prove essential in fostering a more sustainable world.

## **Frequently Asked Questions**

### **What are the primary causes of climate change discussed in Chapter 17?**

The primary causes of climate change include greenhouse gas emissions from fossil fuels, deforestation, and industrial processes.

## **How does deforestation impact biodiversity as mentioned in Chapter 17?**

Deforestation leads to habitat loss, which significantly threatens biodiversity by disrupting ecosystems and displacing species.

## **What strategies for reducing carbon emissions are outlined in Chapter 17?**

Strategies include transitioning to renewable energy sources, improving energy efficiency, and enhancing carbon capture and storage technologies.

## **What role do oceans play in climate regulation according to Chapter 17?**

Oceans absorb a significant amount of carbon dioxide and help regulate global temperatures, but increased CO<sub>2</sub> levels are leading to ocean acidification.

## **What are the major effects of global warming discussed in Chapter 17?**

Major effects include rising sea levels, more frequent extreme weather events, and shifts in species distributions and ecosystems.

## **How does Chapter 17 suggest communities can adapt to climate change?**

Communities can adapt by developing infrastructure to withstand extreme weather, implementing sustainable land-use practices, and enhancing disaster preparedness.

## **What is the significance of the Paris Agreement as discussed in Chapter 17?**

The Paris Agreement aims to unite countries in efforts to limit global warming to below 2 degrees Celsius, promoting international cooperation in climate action.

## **What are some examples of renewable energy sources mentioned in Chapter 17?**

Examples of renewable energy sources include solar power, wind energy, hydroelectric power, and geothermal energy.

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