

Introduction

Read the introduction to weather disturbances and answer the questions that follow.

Weather disturbances, such as hurricanes, tornadoes, and droughts, have significant effects on living things and the environment. Understanding the different types of weather disturbances and their impacts is crucial for mitigating their effects and promoting sustainable development.

Multiple Choice Questions

Choose the correct answer for each question.

1. What is the primary cause of hurricanes?
 - a) Temperature differences between the equator and poles
 - b) Atmospheric pressure differences between high and low-pressure systems
 - c) Wind shear and moisture content
 - d) Ocean currents and salinity

2. Which of the following is a characteristic of a tornado?
 - a) High wind speeds and low pressure
 - b) Low wind speeds and high pressure
 - c) Heavy rainfall and thunderstorms
 - d) Clear skies and calm winds

3. What is the effect of drought on plant growth?
 - a) Increased growth and productivity
 - b) Decreased growth and productivity
 - c) No effect on growth and productivity
 - d) Increased susceptibility to disease



Short Answer Questions

Answer each question in complete sentences.

1. Describe the differences between a hurricane and a typhoon. (5 points)

2. Explain the impact of weather disturbances on human societies, including economic, social, and environmental effects. (10 points)

3. What are the causes and effects of drought on ecosystems? (10 points)

4. Compare and contrast the effects of floods and landslides on the environment. (5 points)

Essay Question

Choose one of the following essay questions and answer it in complete sentences.

1. Analyze the impact of weather disturbances on ecosystems, including the effects on biodiversity, nutrient cycling, and ecosystem services.

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2. Discuss the effects of weather disturbances on human societies, including the economic, social, and environmental impacts. Be sure to provide examples and case studies to support your arguments.



Activities

Complete the following activities.

1. Create a diagram illustrating the water cycle and explain how weather disturbances affect it.

2. Write a short story about a person who experienced a weather disturbance and how it affected their life.

3. Research and create a list of 5 ways to mitigate the effects of weather disturbances on the environment.

Review and Reflection

Review the answers to the multiple choice questions and short answer questions, and reflect on what you learned.

1. Review the answers to the multiple choice questions and short answer questions.

2. Reflect on what you learned about weather disturbances and how you can apply it to your life.

3. Write a short reflection on what you would do differently if you were to experience a weather disturbance.



Assessment Rubric

Use the following rubric to assess your work.

- Multiple Choice Questions: 1 point for each correct answer
- Short Answer Questions: 5 points for complete and accurate answers, 3 points for partial or incomplete answers, 0 points for incorrect or missing answers
- Essay Question: 40% content, 20% organization and coherence, 20% style and conventions, 20% use of examples and case studies
- Activities: 10 points for completion and accuracy

Note

Please note the following.

- This worksheet is designed to be completed within 60 minutes.
- Students should have access to a calculator and a dictionary.
- Provide clear instructions and examples for each question type.
- Allow students to ask questions and seek clarification before starting the assessment.

