Biology - Ecosystems and Conservation Worksheet

Introduction
This worksheet is designed to assess students' understanding of biodiversity, ecosystem concepts, and conservation strategies. It is aimed at 14-15 year old students and aligns with the learning objectives of understanding biodiversity, explaining the impact of human activities, and identifying conservation strategies.
Section 1: Multiple Choice Questions
Choose the correct answer for each question.
 What is the term used to describe the variety of different species of plants, animals, and microorganisms in an ecosystem? A) Ecosystem B) Biodiversity C) Conservation D) Sustainability
 2. Which of the following human activities has the greatest impact on biodiversity? A) Deforestation B) Pollution C) Climate change D) Overfishing
3. What is the main purpose of protected areas in conservation? A) To provide habitat for endangered species B) To promote sustainable resource management C) To restore degraded ecosystems D) To educate the public about conservation
Page 1 of 4

- 4. What is the process by which plants convert sunlight into energy?
 - A) Respiration
 - B) Photosynthesis
 C) Decomposition
 D) Fermentation

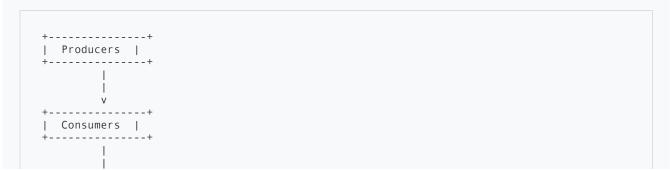
Which of the following is an example of a conservation strategy? A) Deforestation B) Pollution C) Sustainable resource management D) Overfishing	

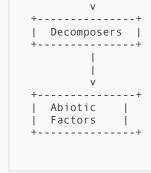
nsv	ver each question in 1-2 paragraphs.
1	Describe the impact of deforestation on biodiversity and ecosystem health.
2	Explain the concept of sustainable resource management and provide an example of how it can be applied in a real-world scenario.
3	What are some strategies that can be used to reduce pollution in ecosystems?
4	Describe the role of decomposers in an ecosystem.
5	Explain the importance of conservation efforts in protecting endangered species.
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Section 3: Diagram Labeling

Label the following components of the ecosystem diagram:

- Producers
- Consumers
- Decomposers
- Abiotic factors





Assessment Rubric

The following rubric will be used to assess your work:

- Multiple Choice Questions: 1 mark per question
- Short Answer Questions: 5 marks per question, based on clarity, accuracy, and completeness of response
- Diagram Labeling: 10 marks, based on accuracy and completeness of labeling and description
- · Case Study: 10 marks, based on clarity, accuracy, and completeness of response
- Reflection: 10 marks, based on clarity, accuracy, and completeness of response

Note to Teachers

The following notes are for teachers:

- This worksheet is designed to be completed in 45 minutes.
- Please provide clear instructions and examples to students before the assessment.
- Ensure that students have access to all necessary materials and resources.
- Consider providing differentiation options for students with visual impairments, learning difficulties, or English language learners.