

Environment

Subject: Basic Science

Class: JSS 3

Date: 2025-05-30

Time: 09:00 - 10:00

School: School A

Trainee: Trainee40 Student40

Supervisor: Supervisor1 Last1

Objectives

Define key terms related to the environment. Identify different components of an ecosystem. Discuss human activities that affect the environment.

Activities

Step 1: Understanding Ecosystems \- Teacher Activity: I will explain what an ecosystem is, using a projector to show images of different ecosystems in Nigeria (e.g., rainforest, savannah). I will highlight the interdependence between living organisms and their physical environment. \- Student Activity: Students will work in pairs to identify examples of ecosystems in their locality and share them with the class. ### Step 2: Components of an Ecosystem \- Teacher Activity: I will present a chart showing biotic (living) and abiotic (non-living) components of ecosystems. We will discuss each component's role in maintaining ecological balance. \- Student Activity: Students will create a Venn diagram comparing biotic and abiotic factors based on classroom discussions. ### Step 3: Human Impact on the Environment \- Teacher Activity: I will lead a discussion on various human activities that negatively affect the environment, such as deforestation, pollution, and urbanization. I will use real-life examples from Nigeria. \- Student Activity: Students will brainstorm solutions to mitigate these impacts in small groups and present their ideas to the class. ### Step 4: Conservation Strategies \- Teacher Activity: I will introduce conservation strategies like recycling, afforestation, and sustainable agriculture through visual aids. We'll discuss why these strategies are crucial for protecting our environment. \- Student Activity: Students will participate in a role-play activity where they act out scenarios demonstrating positive environmental practices within their community. ### Rationale The study of the environment is essential for JSS 3 students as it fosters awareness of ecological issues and promotes responsible citizenship. Understanding environmental concepts aligns with the NERDC curriculum objectives that emphasize the importance of sustainable practices and environmental stewardship. This lesson will provide students with knowledge about ecosystems, human impact on the environment, and strategies for conservation. By engaging in interactive activities and discussions, students will develop critical thinking skills necessary to address contemporary environmental challenges. The pedagogical approach will incorporate inquiry-based learning, allowing students to explore their surroundings and relate their experiences to broader environmental issues. ### Homework Students are assigned to write a one-page reflection on how they can personally contribute to protecting their local environment based on what they learned in class. ### References NERDC Basic Science Curriculum Guide; Environmental Science textbooks; Local government environmental policies; Relevant online resources on ecosystems and conservation practices.

Resources

Projector, charts, environmental samples, worksheets