

Lesson 1/3 in Food Security and Environmental Change in Africa

Lesson Title:	Grade:	Subject:	Time:	Unit:	Topic:	Cross-Curricular Components:
Introduction to African Ecosystems and Environmental Problems	11	Social Studies	One 75 minute class	Natural Resource Science and Management	Food Security	Language Arts, Geography
URL: http://www.cpar.ca/CPAR/media/PDF/Tools%20for%20Learning/Saskatchewan/SS20-Unit3-Food_Security_and_Environmental_Change_In_Africa.pdf						
Lesson Description: In this lesson, via PowerPoint, students will be introduced to: <ul style="list-style-type: none"> - The characteristics of six African ecosystems - Various environmental problems that have largely resulted from poor natural resource management - The relationship between the people of Africa and the environment 		Curriculum Outcomes: Overall Expectations: E1) Assess the environmental impact of the harvesting and/or extraction of resources, including reducing this impact, and analyse threats to the sustainability of natural resources E3) Demonstrate an understanding of the sustainable use of resources and its relationship to the sustainability of ecosystems. Specific Expectations: E1.1) Assess the environmental impact of industrial practices related to the extracting or harvesting of resources, and describe ways in which that impact can be monitored and minimized [AI, C] E3.2) Describe the characteristics and properties that make a natural resource viable for use (e.g., value, location, and extraction and processing costs of minerals), and the importance of managing natural resources to ensure sustainability and biodiversity E3.3) describe a variety of methods used to extract or harvest natural resources (e.g., drag netting, selective cutting of forests) E3.5) explain the importance of biodiversity to the sustainability of life within an ecosystem (e.g., how among biotic and abiotic factors within an ecosystem decreases the chance that any organism in the ecosystem will become extinct)				
Materials: <ul style="list-style-type: none"> - Download a copy of the PowerPoint workshop 'Food Security and Environmental Change in Africa' available at: http://www.toolsforlearning.ca/ - Audio/visual equipment - Make photocopies of student handouts, 'Ecosystems of Africa', 'Food Security and Environmental Change in Africa', and 'CAPR'S Commitment to resource management and food security' - Scissors - Glue 		Assessment: <ul style="list-style-type: none"> - Teacher-given quiz - Class participation in discussions - Evaluation of handout 				

Procedure

Before:

- Small Groups: Ecosystems of Africa
 - In groups of 4 or 5, students will explore the six different ecosystems found in Africa
 - Each group will be given a chart, ecosystem images, ecosystem names, and ecosystem description (these can be cut-out before class, or students can cut-out each item in their groups during class)
 - Student will match ecosystem name with their description and picture
 - Students will organize and glue each item into the correct box on the 'Ecosystems of Africa' chart
 - Students should work collaboratively in groups
 - One group member will raise their hand after they are confident their group has organized the items correctly
 - The teacher will check their answer and provide hints/guidance if corrections are needed
 - After the majority of groups have finished, take up the worksheet as a class

During

- Whole Class: PowerPoint Presentation 'Management of African Resources'
 - Hand out PowerPoint presentation student worksheet 'Management of African Resources'
 - Students should be instructed to use the student worksheet to follow the power point presentation and to gather relevant and important information
 - Use the power point presentation to introduce students to the relationship between people and the

environment, environmental problems, and the millennium development goals.

- As part of the power point presentation, students will watch a short video clip, 'Climate Witness'

- During the power point presentation students will be asked to brainstorm how the achievement of the MDGs relates to the environment, ecosystems and natural resources.

3. Whole Class: Discussion

- Facilitate a brief discussion that explores the relationship between the achievement of the MDGs, the environment, ecosystems, and natural resources.

- Key points can be documented on the chalk board/overhead

After

4. Individual/Small Groups: CPAR's Commitment to Resource Management and Food Security

- This homework assignment will give students the opportunity to explore CPAR's commitment to promoting resource management with the goal of achieving food security

- Students should complete the handout for next class

- Students can be asked to complete all parts of the handout individually or teacher can organize students into groups of 4 -5, where each member is responsible for a different part of the assignment

- The results of their research inquiry will be shared and collected next class

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