

TITLE: Discover the African continent

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Timeframe of activity: 45 min

Tags: Africa, Geography, Biology

Grade Level: K-7

App/Tech Tools: CleverBooks Geography App & Quiver App, Mobile device (tablet or mobile phone)

Additional material: CleverBooks Africa Marker, Quiver theme picture

Learning Objectives:

Discover the Africa continent by using the processes of geography, biology, nature studies and skills focused on following categories (modes):

- Geographical peculiarities of the continents
- Flora and fauna
- Land and water animals
- Interactive weather for each season on different regions

The students are encouraged to work in the small group to find answers to questions; initiate discussions on each topic, discover and analyze data; and communicate findings and decisions.

This team activity develops collaboration, critical thinking, information search and public presentation.

Lesson Activity, Part 1:

Divide the class into 4 small groups. Each group should have CleverBooks Africa Marker and App Quiver.

Ask questions about the African continent:

- Do you know how many countries are there on the African continent? And what is the number of regions and what are the constituent countries of each group?
- What are the characteristics of this continent in terms of topography and climate?
- What are the most important plant formations and how do they differ between regions
What are the most important types of animals and how are they distributed geographically?

Students work in small groups (5) with the application, they must first complete the table of regions and countries. Then they use tablets to work with AR App Quiver and answer the questions:

- What are the constituent countries of North Africa?
- What are the constituent countries in Africa?
- Which are the constituent countries of East Africa?
- Complete the table of the constituent countries of each region
- Explore topic of Monarch butterfly life? How do these butterflies migrate, what time of year and why? (2)
- What plants does it feed on?
- How does the transformation happen in the life of a butterfly? (3)
- What are some interesting butterfly facts about Monarch Butterfly? (4)

Each group works on its own question and answers

Lesson Activity, Part 2:

Initiate student's iteration with CleverBooks Africa Marker and navigate them through the discovery process with suggesting to: explore different modes: animals, weather, plants, etc..

Questions outline:

Each group of students receives a question and prepares answers.

Landforms mode (1):

- How are the colors distributed on the terrain map? What is the dominant color?
- What types of terrain do these colors symbolize?
- Extract land types by regions.
- What are the dominant fields of North Africa?
- What are the dominant fields in Central, East and West Africa?
- What are the dominant lands south of the continent?

Weather Mode (2):

- What is the weather like in North Africa?
- Compare it with the weather of other regions.
- Where is the concentration of rain throughout the year in the continent?
- What is the effect of that on vegetation?

Plant Mode (3):

- Where is the dense vegetation concentrated on the African continent?
- Determine the types of plants.
- The most important geographic distribution of these species?

Animal Mode (4):

- Determine the area where animals are concentrated on the mainland and compare it to other regions.
- List the names of these animals.
- Display the geographic area in which each category is concentrated

Every team can be responsible for one of the categories: weather, plants, animals, landforms, etc.

Additional Ideas (optional):

Each group can complete a map depending on the application on the subject on which they worked

- Terrain map
- Climate map
- Vegetation map
- Animal species map

Adopt color gradients and respect the rules of cartographic representation.

Display these works in the institute's library to encourage other teachers and students to adopt the app.