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**The Rain Forest of Costa Rica**

**Writer:** Jennifer Rogers, Science Teacher

**Grade Level:** 5th grade

**Related Big Picture Concepts:** Environment, Interdependence, Survival, Sustainability, Variation

**Subject Areas:** Science, Visual Arts

**Essential Question:** How is each layer of vegetation in the rainforest different? How do plants and animals interact within a rainforest environment?

**Abstract:** Students will learn about the different layers of vegetation in the rainforest and the animals that are unique to each layer. Students will study art from Costa Rica and learn about the animals depicted in the artwork. Finally, students will research different features of the Costa Rica rainforest and create a travel brochure about the information.

**Duration:** 200 minutes

**Focus Works of Art:**



Costa Rican

***Crocodile Effigy Vessel*, circa 300-1100**

Ceramic

H. 5 3/4 in. (14.6 cm)

[*www.artnc.org/node/348*](http://www.artnc.org/node/348)



Costa Rican, Guanacaste or Diquís Region

***Peccary Effigy Jar*, circa 1000-1550**

Ceramic with red-orange and black on cream slip paint

H. 12 1/8 in. (30.8 cm)

[*www.artnc.org/node/346*](http://www.artnc.org/node/346)



Costa Rican

***Jaguar Effigy Incense Burner*, circa 300-1000**

Ceramic

11 3/8 x 7 1/2 in. (28.9 x 19.1 cm)

[*www.artnc.org/node/347*](http://www.artnc.org/node/347)

**North Carolina Standards Correlations:**

Science 5.L.2

Visual Arts 5.V.3.3, 5.CX.1.4

**Student Learning Objectives:**

* Students will investigate the topography and climate of Costa Rica.
* Students will discuss a work of art from Costa Rica and research the animal depicted in the artwork.
* Students will identify the different layers of vegetation and animal life in the rain forest.
* Students will research different aspects of the rainforest in Costa Rica and create a brochure about the information.

**Activities:**

1. Allow students to locate Costa Rica on a world map. Ask students to speculate about the topography and climate of this country. Ask them to predict the types of animals that might live in this environment. Determine the latitude and longitude of the country and discuss its relationship to the equator. Allow students to use Google Earth to explore different regions of Costa Rica and make predictions.
2. Break the class into 11 groups. Using the Costa Rica Web site (http://centralamerica.com/cr/moon/moland.htm), have each group research one section from the Web site (The Land, A Backbone of Mountains, Meseta Central, Northern Lowlands and Caribbean Coast, Pacific Coast, Geology, Earthquakes, Volcanoes, Climate, Temperatures, Rainfall). Tell students to read their section and create a creative poster about their topic, including facts and pictures. Have the groups share their posters.
3. Have students complete the Costa Rica Reflection Handout based on what they learned from Google Earth and the group presentations.
4. Keeping students in groups, allow the students to study one of the Costa Rican works of art. Ask students to discuss the work of art. Questions include: *What do you see in your artwork? What do you think it is made of? What type of animal is depicted by your object?* (collared peccary, frog, jaguar). Ask students to read the art background information for more facts. Allow students to use the Internet or other book resources to research the animal depicted by their piece of art.
5. Project the artwork and have students present their research, telling about the artwork and the animal depicted in the art.
6. Once every group has presented, discuss the animals of the rainforest. Ask: *Would all of these animals live in the same part of the Costa Rican rainforest? Why or why not?*
7. As a class, discuss the different layers of vegetation found in the rainforest, including the forest floor, understory, canopy, and emergent layer. Have students create a flip foldable, drawing a picture of each layer on the outside of the foldable and listing the physical characteristics of each layer under the picture. Refer to Directions to Flip Foldable Handout.
8. Show students the Rainforest Virtual Field Trip PowerPoint and ask students to take notes on each layer of the rainforest on their foldables. Students can also use the textbook or Internet resources to find information for the foldable. Students should then draw each layer on a separate flap of the foldable so that each layer of the rainforest has its own separate flap, but together, the flaps make an entire picture of the vegetation layers of the rainforest. Extension: Have students sing the “Layers of the Rainforest” song to help reinforce the information.
9. Give students a large piece of drawing paper with crayons, markers, colored pencils, or collage materials and glue. Have them fold their papers into the four sections and label the layers of vegetation.

Have students draw a background of the rainforest. Using the Rainforest Animals Handout, students should cut out the animals, color them, and glue them into the correct locations of the rainforest.

1. Have students create a travel brochure that promotes Costa Rica’s rainforest. The brochure should tell about the weather and environment, ecology, travel information, and endangered species. Refer to the Rainforest Travel Brochure and Rubric Handout. The brochures can be displayed alongside the students’ collages of the rainforest and the rainforest foldables.

**Assessments:**

1. Group discussion, poster, and presentation will demonstrate students’ knowledge of aspects of Costa Rica.
2. Costa Rica Reflection Handout will demonstrate students’ understanding of the characteristics of Costa Rica.
3. The rain forest drawing will assess the students’ knowledge of the various layers of the rain forest and the animal and plant life at each level.
4. The Costa Rica travel brochure will assess students’ understanding of life in the Costa Rica rainforest. (rubric)

**Resources:**

Vocabulary:

 forest floor

 understory

 canopy

 emergent layer

 peccary

 hummingbird

 resplendent quetzal

**Materials:**

computers with Google Earth capabilities

posterboard

computers with Internet access

projector

**Lesson Resources:**

Costa Rica Web site

 <http://centralamerica.com/cr/moon/moland.htm>

Costa Rica Reflection Handout

Directions for Flip Foldable Handout

Rainforest Virtual Field Trip PowerPoint

“Layers of the Rainforest” Song <http://www.perpetualpreschool.com/preschool_themes/rainforest/rainforest_songs.htm>

Rainforest Animals Handout

Rainforest Travel Brochure Guidelines and Rubric Handout

**Costa Rica Reflection**

Reflect on what you have learned about the characteristics of Costa Rica. What are you still confused about? What are you wondering? Your answers should be in complete sentences, and every question should be answered thoroughly.

The one thing I feel I really understand is (Explain what you know): \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

I’m still confused about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The reason I am confused is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Something I haven’t understood before that I understand now is \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

I am still wondering \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Any other thoughts? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

***Rainforest Animals***

 

