
**INTEGRATED SEGMENT:
THE DISTRIBUTION OF EARTH'S RESOURCES**

Integrated Phenomenon: At Yasuni National Park, forests can be so dense they are difficult to walk through. But at Big Bend National Park, there are vast open stretches of dry land.

1. What questions do you have about this phenomenon? How might you investigate to find answers?



2. In the space below, come up with an initial model that attempts to explain this phenomenon.

3. After you complete each lesson, return to the table below and add what you learned that relates to or might help explain part of the phenomenon: *At Yasuni National Park, forests can be so dense they are difficult to walk through. But at Big Bend National Park, there are vast open stretches of dry land.*

Lesson	Questions to Consider	What I Learned to Help Explain Part of the Phenomenon
Earth's Tectonic Plates	What patterns do scientists see across landforms on Planet Earth that support the idea that the continents have moved around? How does this explain similarities between distant continents? Do some research to see if you can identify some similar parks on opposite sides of the ocean.	
The Rock Cycle	What factors influence the types of rock found at different places around the Earth? How does rock break down into sand? Do you think the rocks making up the Earth's surface in one National Park change over time?	
The Water Cycle	How does water change state as it cycles? What influences how much water is found in different National Parks?	
Earth's Natural Resources	What influences the amount of fresh water in a National Park? What influences the amount of soil in a National Park? What influences whether forests grow in a National Park?	

Lesson	Questions to Consider	What I Learned to Help Explain Part of the Phenomenon
Resources in Living Systems	What resources do living things need? What determines which species can live in an area like a National Park? Consider that Big Bend National Park is in Texas, and Yasuni National Park is in Ecuador. Look at the map in Investigation 3 to learn about rainfall.	
Interactions Among Organisms	When is a living thing itself a resource that can impact the distribution of other living things?	
Changing Ecosystems	What causes change in an ecosystem's resources? How does this impact living things?	
The Motion of Particles	How does temperature affect the state of matter? How does temperature affect water?	
Heat, Temperature, and State Changes	What causes an object to melt or evaporate? What causes an object to condense or freeze? Why would trees in a forest care if water melted, evaporated, condensed, or froze?	

4. In the space below (or on your original model in question 2), revise your model based on what you learned throughout the lessons.

5. Use what you have learned, and the final model that you developed, to explain the phenomenon: *At Yasuni National Park, forests can be so dense they are difficult to walk through. But at Big Bend National Park, there are vast open stretches of dry land.* Fill in *Handout A: Claim, Evidence, and Reasoning Planner* to plan your explanation. Then write it out in the space below.

6. How does this explanation relate to questions that have come up in your own life experience?