

Name: _____ Date: _____ Period: _____



Earth's Energy Budget Review

Directions: Working with your shoulder partner, use the word bank to complete the paragraph.

Word Bank: Short, Energy, Sun, Heat Energy, Radiant, absorbed, reflected, outgoing, incoming, albedo, zero, absorbs, 30%, 20%, 50%

The input part of the Earth's _____ budget comes from the _____. It provides _____ to the Earth. It comes in _____ wavelengths called _____ light. Once the radiant light enters the Earth system it can be _____ or _____. Reflected means _____ and absorbed means _____. A surface's reflection is known as its _____ and is measured on a scale of _____ to 1. White has an albedo of 1 because it reflects light and black has a zero reflectivity because it absorbs light. When an object has a high albedo (close to 1), it reflects a lot of light. When something has a low albedo (close to zero), it _____ a lot of light. Greenhouse gases like _____, nitrous oxide, and nitrogen increase Earth's albedo because they absorb heat energy. Overall, about _____ of the incoming solar radiation is absorbed by land and oceans, _____ is absorbed by the atmosphere and clouds, and _____ is reflected by clouds and land back to space.

☺☺☺☺☺ TEST-TAKING STRATEGY: Find and circle key words that make two answer choices different!

Practice Questions

1. Which of the following best describes Earth's Energy Budget?
 - a. Balanced amounts of heat energy are reflected and absorbed by Earth's land, oceans, and atmosphere
 - b. Uneven amounts of heat energy are reflected and absorbed by Earth's land, oceans, and atmosphere
2. How does the Greenhouse Effect contribute to Earth's Energy Budget?
 - a. Greenhouse gases are responsible for some of the energy absorbed by Earth
 - b. Greenhouse gases are responsible for some of the energy reflected by Earth