

EARTH'S SPHERES PROJECT

“Everything is connected to everything else.”

5-ESS2-1-I can....develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.

5-ESS3-1 I can....obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.

Earth is often referred to as a system; a complex whole that is produced by various interacting parts. These parts, which you have learned as spheres, interact in very dynamic ways to produce everyday life as well as natural disasters. In this group project, you will each be assigned a sphere and demonstrate your understanding of each sphere, how it interacts with other spheres, and how Earth represents a system. You can choose however you want to complete this task. Be creative!

Guiding Questions: What are the guiding questions for this lesson?

1. What is a system?
2. What is the Earth's systems?
3. What are the Earth's spheres and how do the spheres interact?
4. What can humans do to diminish their impact on the hydrosphere, atmosphere, geosphere, and the biosphere?

The spheres that will be included in your project are:

Atmosphere

Geosphere

Hydrosphere

Biosphere



Assignment:

1. Each member of your group will be assigned a sphere and together your group will create a project that illustrates the spheres and at least 3 interactions between them.
2. You will label each sphere.
3. You will clearly and accurately describe each of system-what your sphere is made of, what exists in your sphere i.e. animals, plants, etc, how your sphere interacts with the other three spheres, and any other information you think is important.
4. You will list at least three ways humans can diminish their impact on your sphere.
5. You will then, with your group, deliver an oral presentation on your assigned system.
6. You will cite all resources (books, websites, where you got all information and pictures) in MLA format.

Spheres Project Outline

This is only to help you organize all of your information!

What are the 4 spheres? Describe each sphere.

1. _____

2. _____

3. _____

4. _____

Think about how you will illustrate each of these spheres. Make sure you cite all resources.

Name three ways your sphere interacts with other spheres: _____

Describe this system in detail.

What are some ways to reduce the human footprint on your sphere?
