

Earth's Spheres Study Guide

Write the definition of "Earth system" _____

List each of Earth's spheres and tell their definitions:

1. _____ = _____

2. _____ = _____

3. _____ = _____

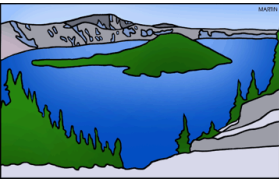
4. _____ = _____

5. _____ = _____

Be able to tell examples of your own for each of Earth's spheres!

Be able to identify which sphere an example statement or picture represents.

Write at least 2 examples of ways that Earth's spheres exchange **matter**.



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Write at least 2 examples of ways that Earth’s spheres exchange **energy**.

Be able to name the two (or more) spheres that are interacting in a given situation (may be shown in pictures or described in words).

List three major sources of Earth’s energy. Circle the one that is the source of almost all Earth’s total energy.

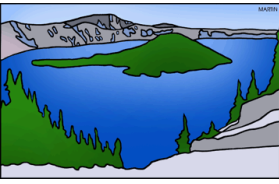
What is meant by the term “energy budget”?

What happens when the Earth’s “energy budget” is **balanced**?

Would we consider this a generally positive thing, or a generally negative thing? _____

Why? _____

What is one example of energy flow that keeps Earth’s energy budget balanced?



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What happens when the Earth's "energy budget" is **unbalanced**?

Would we consider this a generally positive thing, or a generally negative thing? _____

Why? _____

What is one example of a way that Earth's energy budget could become unbalanced?

"Fun Facts" to know about Earth's spheres:

What two gases make up most of Earth's atmosphere? _____

(circle the one that is the most abundant) _____

Where is most of Earth's liquid water? _____

Explain why this is or is not drinkable by humans. _____

Write three things the atmosphere does to help us (or the Earth overall).

Draw a simple sketch of the geosphere, and label its 3 parts.