

Geosphere Project

You will research the Geosphere and the factors that interact with the system, including the energy that drives it and how that energy is transferred. You will create a report (like a book) that includes the following elements/pages:

1. Explanation/introduction of what the geosphere is.
2. Diagram and description of the Earth's layers. Day 1 initials _____

3. Explain the Theory of Plate Tectonics.
 - a. Include a map of Earth's plates.
4. Discuss the following two scientists (and dates) who have contributed to the theory of plate tectonics and how they contributed.
 - a. Alfred Wegner
 - b. Harry Hess Day 2 initials _____

5. Describe the three ways in which the Earth's crust can move (the three types of plate boundaries) and the events that are associated with that movement.
 - a. Include diagrams of the three types of plate boundaries.
 - b. An example of where on Earth each type of boundary can be found (states/countries)
 - c. Explain what evidence supports knowledge of each type of boundary (what major events take place at each boundary type). Day 3 initials _____

6. What is the cause of the movement of Earth's plates? How is energy transferred through the geosphere?
7. Explain how the processes of the geosphere demonstrate the Laws of Conservation of Matter and Energy. In other words, explain how matter and energy are conserved through geophysical processes.
8. Works cited (with proper formatting, consistent with your Language Arts class requirements). Get to know Easybib.com. Day 4 initials _____

Report requirements:

1. Cover page
2. Typed (font size 12)
3. Creative
4. Neatly organized and constructed
5. No spelling or grammatical errors
6. Works cited
7. All pictures referenced
8. Turned in on time to avoid a 50% reduction in the total points possible

Rubric for Geosphere Project

Requirement:	3	2	1	0
Intro to Geosphere	Explanation is accurate and thorough	Explanation is accurate but not thorough	Explanation contains some inaccuracy	No attempt or inaccurate
Earth's layers	All elements are included and correct	1 element is missing and/or incorrect	2 elements are missing and/or incorrect	More than 2 elements missing and/or incorrect
Theory of Plate Tectonics	Explanation is accurate and thorough	Explanation is accurate but not thorough	Explanation contains some inaccuracy	No attempt or inaccurate
Scientists	The two scientists are included and contribution is described accurately	1 required element is missing	More than 1 requirement is missing and/or inaccurate	No attempt or inaccurate
Types of boundaries	All three boundaries are included with diagrams and examples	1 element is missing	2 elements are missing	More than two elements are missing
Cause of Movement	The cause is explained and accurate	The cause is accurate, but not explained well	N/A	Cause is not accurate
Conservation Laws	Explanation of how energy & matter is conserved is accurate and thorough	Explanation is not thorough or only partially accurate for one of the laws	Explanation is missing for one of the laws	Explanation is inaccurate for both elements, or no attempt
Neatness & Organization	Report is organized and neatly presented	Report is organized but not neatly presented	Report is not organized but is neatly presented	Report is not organized and not neatly presented
Spelling & Grammar	No spelling or grammatical errors	N/A	Some spelling and/or grammatical errors	Many errors in spelling and/or grammar
Works Cited	Work is cited (including pictures) and in proper format	Work is cited (including pictures) but format is not accurate	Works cited is missing for the pictures	No attempt