

Unit 3 Handout X

Summative Review Sheet

**Purpose:** Use this sheet to help you review information for the XPT Summative.

**Guiding Questions:** No guiding question for this lesson.

**What's on the summative?**

- The summative will consist of three questions:
1. How has the geosphere changed over time?
  2. What evidence do we have of these changes?
  3. What caused (is causing) these changes?

**How will I be graded?**

You will earn up to 5 points for each question (15 points total). Your score is based on the accuracy and quantity of your answers. For example, if you provide 1 accurate example of how the geosphere has changed, you would receive 1 or 2 points. Compare this to someone who provides 3 or 4 accurate examples of how the geosphere has changed.

**What is the geosphere?**

- The **geosphere** refers to the earth's land and anything below it. It does not include life, the atmosphere, or water.

**What did we learn this unit?**

When trying to answer these questions, think about what we have studied in this unit.

- **Earthquakes.** We learned how to find where they occur (epicenters). We plotted epicenters and found they mostly occur on or near plate boundaries.
- **Plates.** We learned our earth's surface is divided into large sections of crust called plates. We learned these plates interact with each other at three boundary types: convergent, divergent, and transform.
- **Volcanoes.** We learned volcanoes form as a result of magma (molten rock) breaking through the earth's surface. The size and shape of the volcano is dependent upon the viscosity of the lava.
- **Geologic History.** We learned fossils, rock layers, and other natural evidence provide an incomplete story of our earth's past. This helps us understand the history of life, the atmosphere, and the hydrosphere.

**Why are you telling me this?**

This short review sheet is to help you think about how the geosphere has changed. Take examples from what we learned any apply it to the three questions at the top of this page. Give specific examples (evidence!) that will support what you are saying. Finally, is there an overlying (or underlying...ha!) cause of these changes?

**Reviewing**

Below are several questions relating to each of the studied areas. These review questions connect back to the three questions to the summative. Answer these review questions to help you see connections between our studied topics and the summative.

Summative Questions	Earthquakes
<b>How has the geosphere changed?</b>	- What changes to the geosphere do earthquakes cause?
<b>What evidence do we have of these changes?</b>	- How do we know earthquakes cause damage?
<b>What causes these changes?</b>	- What causes earthquakes to occur?

Summative Questions	Plates
<b>How has the geosphere changed?</b>	- What changes to the geosphere do the plates cause?
<b>What evidence do we have of these changes?</b>	- How do we know plates cause damage?
<b>What causes these changes?</b>	- What causes plates to move?

Summative Questions	Volcanoes
<b>How has the geosphere changed?</b>	- What changes to the geosphere do volcanoes cause?
<b>What evidence do we have of these changes?</b>	- How do we know volcanoes cause change?
<b>What causes these changes?</b>	- What causes volcanoes to form? (This answer requires lots of connections!)

Summative Questions	Geological History
<b>How has the geosphere changed?</b>	- What changes have been recorded by fossils and rock layers?
<b>What evidence do we have of these changes?</b>	- How do fossils and rock layers show evidence of change in the geosphere?
<b>What causes these changes?</b>	<p>- How is the rock cycle connected to the geosphere?</p> <p>- What drives the rock cycle to happen? (This is very inclusive of other ideas on this sheet.)</p>