

Name:

Date:

Period:

Plate Tectonic Study Guide

Who was Alfred Wegener?

Describe the continental drift hypothesis?

How did rock formations, fossil, and climatic evidence help support the continental drift hypothesis?

Why was the continental drift hypothesis rejected by the science community?

Who was Harry Hess and what forms of technology was used to help collect data to support Wegener's continental drift hypothesis?

What is paleomagnetism?

What is sea floor spreading? Where does it occur?

How do core samples and rock sample ages help support that the sea floor is spreading along mid-ocean ridges?

Describe the following three plate boundaries:

Divergent:

Convergent:

Transform:

What is a rift valley? What type of plate boundary are rift valleys located along?

What is subduction?

What type of geographic features and events are often associated with subduction?

Describe the following convergent boundaries:

Oceanic-Oceanic subduction:

Oceanic-continental subduction:

Continental-Continental collision:

Describe density. What is the equation used to calculate density?