

## **Earth Science: The Earth's Structure, Rocks, Erosion, Weathering, Water Cycle, and Greenhouse Effect - Questions and Answers for Ninth Grade in America**

**What are the three main layers of the Earth?**

- 1. Answer: The three main layers of the Earth are the crust, mantle, and**
- 2. core.**

**What is the lithosphere?**

- 3. Answer: The lithosphere is the solid outer layer of the Earth, including the crust and the upper part of the mantle.**

**What are tectonic plates?**

- 4. Answer: Tectonic plates are large pieces of the Earth's lithosphere that move around on the underlying asthenosphere.**

**What is plate tectonics?**

- 5. Answer: Plate tectonics is the theory that the Earth's lithosphere is divided into large tectonic plates that move around on the underlying asthenosphere, and that these movements can cause earthquakes, volcanic eruptions, and the formation of mountains.**

**What is the difference between a divergent boundary and a convergent boundary?**

- 6. Answer: A divergent boundary is a boundary between two tectonic plates that are moving away from each other, while a convergent boundary is a boundary between two tectonic plates that are moving towards each other.**

**What is the difference between the epicenter and the focus of an earthquake?**

- 7. Answer: The focus of an earthquake is the point where the earthquake originates within the Earth's crust, while the epicenter is the point on the Earth's surface directly above the focus.**

**How do scientists use seismographs to study earthquakes?**

- 8. Answer: Seismographs are instruments that detect and measure vibrations in the Earth's crust caused by earthquakes. Scientists use the data collected by seismographs to study the intensity, duration, and location of earthquakes.**

# Earth Science Guided Study Workbook Answers Rocks

**Marcel A. Müller**



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