

7) Why has the appearance of Earth's surface changed throughout geologic history?

4.2.3.3. **Plates** have created plates and ocean basins are formed, move and interact using earthquakes, hot flow and volcanoes to reflect forces within the earth.

The earth's plates sit on a dense, hot, somewhat melted layer of the earth. The plates move very slowly, pressing against one another (convergent boundary) in some places and pulling apart (divergent boundary) in other places, sometimes scraping alongside (transform boundary) each other as they do. Mountains form as two continental plates, or an ocean plate and a continental plate, press together. There are worldwide patterns in major geological events (such as earthquakes, volcanic eruptions, and mountain building) that coincide with plate boundaries. Lithospheric plates on the scale of continents and oceans constantly move at rates of centimeters per year as a result of convection movements in the mantle coupled with characteristics of the plates themselves. Major geological events, such as earthquakes, volcanic eruptions, and mountain building, result from these plate motions. The crustal plates range in thickness from a few to more than 100-kilometers. Ocean basins are the tops of thin oceanic plates that spread outward from mid-ocean rift zones; land surfaces are the tops of thicker, less dense continental plates. Earth is made up of 4 different layers: inner core, outer core, mantle, crust. Seismologists have studied how wave energy travels through the different layers of Earth. Waves have characteristics: frequency, wavelength, amplitude and speed. During an earthquake, energy is released into the Earth as: Primary waves, Secondary waves and Surface waves.

1) Describe what can occur as Earth's plates move?

2) How does the movement of plates cause the formation of mountains?

3) List the major geological events that may result from movement of the plates along boundaries.

4) What unit of measurement is used to describe how the plates move from year to year?

5) What causes the movement of Earth's tectonic plates?

6) Describe the range of thickness of the crustal plates?

Investigative Science Final Exam Review Guide

Rachel Salisbury



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Tom Bielik,Moritz Krell,Laura Zangori,Orit Ben Zvi Assaraf,2023-11-15 Understanding the complexity of the natural world and making sense of phenomena is one of the main goals of science and science education When investigating complex phenomena such as climate change or pandemic outbreaks students are expected to engage in systems thinking by considering the boundaries of the investigated system identifying the relevant components and their interactions and exploring system attributes such as hierarchical organization dynamicity feedback loops and emergence Scientific models are tools that support students reasoning and understanding of complex systems and students are expected to develop their modeling competence and to engage in the modeling process by constructing testing revising and using models to explain and predict phenomena Computational modeling tools for example provide students with the opportunity to explore big data run simulations and investigate complex systems Therefore both systems thinking and modeling approaches are important for science education when investigating complex phenomena

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