

Science

OCT. 11-15, 2021

Structure of the Earth



Crust - thickness varies from ~3 to 5 miles (8km) under the oceans to as much as 26 miles (32km) under continents, consists mostly of granitic and mafic silicate rocks

Lithosphere - rigid crust and upper mantle
Asthenosphere - partially molten or deforms fluidly like "plastic" under pressure

Mantle - consists mostly of ultramafic silicates
 ↳ **Upper Mantle** - more rigid than asthenosphere probably due to great pressure

Core - consists of mostly iron, nickel, and sulfur
 ↳ **Outer Core** - liquid phase
 ↳ **Inner Core** - hot, dense ball of (mostly) iron

Plate Tectonic Theory

- Earth's lithosphere is broken into pieces called plates
- Their movement creates major changes in Earth's surface

Continental Drift Theory

Fossil Evidence

- Fossils of the same species were found on separate continents and nowhere else.
- These plants and animals would have had to either independently evolve the same traits or cross the distance.
- Fossils found didn't fit the climate (Palm tree leaf fossils were found in Alaska).

Continental Spreading

- ↳ An American Scientist named Harry Hess proposed the theory of continental spreading
- ↳ states that new ocean crust is formed at ocean ridges and destroyed at deep-sea trenches.

- In early 1915, the German Scientist Alfred Wegener developed a theory that the continents once formed a giant supercontinent that he called **Pangaea**

↳ means all lands

- Wegener proposed the theory of "Continental Drift" that all the continents had once been joined together in a single landmass and have drifted apart over time.

245 Million Years Ago

- Pangaea existed when most of the earliest dinosaurs were roaming the Earth. The continents were surrounded by a sea called **Panthalassa** means **all sea**.



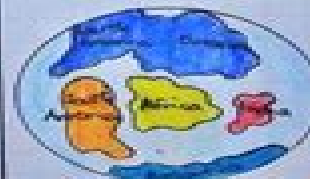
180 Million Years Ago

- Gradually, Pangaea broke into two big pieces. The northern piece is called **Laurasia**; the southern piece is called **Gondwanaland**.



65 Million Years Ago

- By this time, the dinosaurs became extinct. Laurasia and Gondwanaland have split into smaller pieces.



- The movement of Earth's tectonic plates causes the formation of volcanoes and the earthquakes that result.
- Volcanoes can form along convergent plate boundaries.
- When two plates collide, the denser plate sinks, or subducts, into the mantle.

1.)

Crater



Cinder Cone Volcano

- ↳ built from ejected lava fragments. They have a steep slope, wide crater and are the most abundant of the three major volcano types.

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LL Leslie



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Focus on Physical Science California Edition Michael J. Padilla, 2007 **Foundations of Earth Science Study Guide** Edward J. Tarbuck, 2001-02-15 Includes Learning Objectives Chapter Review Chapter Outline Vocabulary Review Key Terms Comprehensive Review and Practice Tests An Introduction to the Geography of Tourism Velvet Nelson, 2013-03-13 Tourism is an astonishingly complex phenomenon that is becoming an ever greater part of life in today's global world This clear and engaging text introduces undergraduate students to this vast and diverse subject through the lens of geography the only field with the breadth to consider all of the aspects activities and perspectives that constitute tourism Indeed geography and tourism have always been interconnected and Velvet Nelson reinforces the relationship between them by using both human and physical geography to interpret all facets of tourism economic social and environmental She shows how geography provides the tools and concepts to consider both the positive and negative factors that affect tourists and destinations as well as the effects tourism has on both peoples and places Her real world case studies based both on research and on the experiences of tourists themselves vividly illustrate key issues This comprehensive thematically organized introduction will enhance students understanding of geographic concepts and how they can be used as a way of viewing and understanding the world **The Cumulative Book Index** ,1995 A world list of books in the English language **Readers' Guide to Periodical Literature** Anna Lorraine Guthrie, 1915 An author subject index to selected general interest periodicals of reference value in libraries *Popular Science* ,1909-11 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **English Mechanic and Mirror of Science** ,1866 **Readers' Guide to Periodical Literature** ,1915 **English Mechanic and World of Science** ,1879 *English Mechanic and Mirror of Science and Art* ,1915 Ancient Oceans, Orogenic Uplifts, and Glacial Ice Lee J. Florea, 2018 This volume includes compelling science and field trips in Indiana Illinois Kentucky Michigan and Ohio Take a journey through the Heartland to sand dunes outcrops quarries rivers caves and springs that connect Paleozoic stratigraphy with the assembly of Gondwana continental glaciation with Quaternary geomorphology and hydrology and landscape with the human environment **The Gardeners' Chronicle** ,1910 The Athenaeum ,1844 **The Athenæum** ,1844 *Engineering* ,1898 *Gardeners' Chronicle* ,1910 **The Publishers' Circular and Booksellers' Record** ,1915 *The Publisher* ,1915 *British Books* ,1915 **Publishers' Circular and Booksellers' Record of British and Foreign Literature** ,1915

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