

# Science

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## 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).

#### Seafloor Spreading

- ↳ An American Scientist named Harry Hess proposed the theory of seafloor 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**.



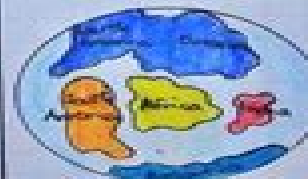
#### 180 Million Years Ago

- 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.

# Earth Science Note Taking Guide

**Brendan G. Carr**



## **Earth Science Note Taking Guide:**

**Environmental Science Note Taking Guide** Michael L. McKinney,1996      **California Forcus on Earth Science**,2008      **McDougal Littell Science** ,2006-03-15      **California Focus on Earth Science** ,2008      *Earth's Surface: Teacher's ed* ,2005      Resources in Education ,1984      **Earth's Waters: Teacher's ed** ,2005      Focus on Physical Science California Edition Michael J. Padilla,2007      **Earth Science, Grades 6-8 Note-taking/ Reading Study Guide** McDougal-Littell Publishing Staff,Mcdougal,2005-05      **Research in Education** ,1971-12      **McDougal Littell Science** McDougal Littel,2004-04      **Earth Science** Shirley Cox,Shirley Coulter,1992 Explains the scientific method and suggests a variety of earth science projects and experiments suitable for a science fair      The HarperCollins Concise Handbook for Writers Peter Dow Adams,Amy Tickle,1994      **Research Guides to the Humanities, Social Sciences, Sciences, and Technology** Martin Howard Sable,1986      **Guide to Technical, Trade, & Business Schools 2001/2003** Mary Goodhue Lynch,2001-10      Science Indiana Standards Manager Grade 6 Mcdougal Littel,2004      **A Guide to Teaching Conservation in Ohio Elementary Schools** ,1961      *The Macmillan Guide to Correspondence Study* Modoc Press,1996      **American Journal of Science** ,1884      *Library Media Connection* ,1999

## Unveiling the Magic of Words: A Review of "**Earth Science Note Taking Guide**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Earth Science Note Taking Guide**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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