

Geology

Terms to Know

- Weathering:** The breaking down and changing of rocks and minerals due to natural processes.
- Erosion:** The process of soil, rocks, and other sediments being carried away or moved by natural forces such as wind, water, and ice.
- Deposition:** When bits of soil, rocks, and other sediments settle in a new place.

Layers of the Earth

The diagram shows a cross-section of the Earth with four layers labeled from the center outwards: Inner Core (yellow), Outer Core (orange), Mantle (light orange), and Crust (thin blue layer on the surface).

The Earth has layers. The deeper you go, the more pressure there is.

- Crust:** The thin, outermost layer of the Earth. It is made of solid rock.
- Mantle:** The layer between the crust and the outer core. It is made of solid rock.
- Outer Core:** The liquid layer of the Earth. It is made of molten iron and nickel.
- Inner Core:** A solid sphere of iron and nickel at the center of the Earth. It is the hottest part of the Earth.

Igneous Rocks

Rocks formed when liquid magma cools and hardens.

The diagram shows a cross-section of an igneous rock with a crystalline structure, labeled 'igneous'.

Earth's Movements

Divergent Boundaries

- Plates move apart from each other.
- Results in volcanoes and mountain formation.

The diagram shows two tectonic plates moving apart, creating a rift valley and a volcano.

Convergent Boundaries

- Plates move toward each other.
- Results in earthquakes and mountain formation.

The diagram shows two tectonic plates moving toward each other, creating a mountain range and an earthquake.

The rock cycle is a process that shows how rocks change over time. It starts with rocks breaking down into smaller pieces through weathering and erosion. These small pieces, called sediments, are carried away by wind or water. These sediments settle at the bottom of a body of water and form sedimentary rocks. These sedimentary rocks are then buried deep in the ground, where heat and pressure transform them into metamorphic rocks. These metamorphic rocks can then melt and form igneous rocks, completing the cycle.

Thermal Energy

Earth's thermal energy causes movement within it. It creates currents in the mantle that move the Earth's tectonic plates. This movement can result in earthquakes, volcanoes, and mountain formation.

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Three versions are included. This is the completed version, which is completely filled out. Just print and send home with students.

The Earth has layers. Press increase the deeper you go below

- **Crust:** The thin, outermost composed of solid rock.
- **Mantle:** The largest layer and the outer core. It is made of rock.
- **Outer Core:** The liquid layer of the core.
- **Inner Core:** A solid sphere in the center of Earth. It is made of material nickel.



- **Crust:** The thin, outermost composed of solid rock.
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- **Outer Core:** The liquid layer of the core.
- **Inner Core:** A solid sphere in the center of Earth. It is made of molten nickel.

Divergent Boundaries	Convergent Boundaries
- Plates move apart from each other - Results in volcanoes and mountain formation	- Plates move toward each other - Results in earthquakes and mountain formation

- Plates move **apart** from each other
- Results in volcanoes and mountains formation



- Plates move toward each other
- Results in earthquakes and mountain formation



Earth's thermal energy causes movement within it, creating currents in the mantle that move the Earth's tectonic plates. This movement can result in earthquakes, volcanoes, and more.

Earth's thermal energy causes movement within it creates currents in the mantle that move the Earth's fact movement can result in earthquakes, volcanoes, and mo

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Rocks formed when lava or magma cools and hardens.



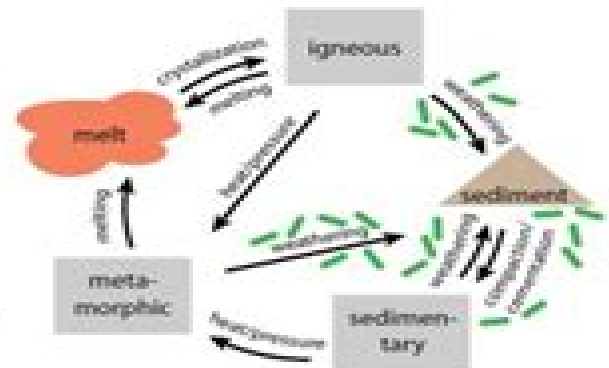
Rocks formed within
sediments are cemented
together



**Rocks Formed by Heat
and Pressure**



The rock cycle is a process that shows how rocks can change over time. It starts with rocks breaking down into smaller pieces through weathering and being carried away by erosion. These small pieces compact into sedimentary rocks. With heat and pressure, these sedimentary rocks can transform into metamorphic rocks. If the rocks melt and cool down, they can become igneous rocks. This cycle keeps repeating over millions of years.



Fossils are the remains or traces of plants and animals that lived long ago. By studying fossils found in different rock layers, scientists can make inferences about what the Earth was like a long time ago.



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Table of Contents Study Guide Geology Energy Resources

1. Understanding the eBook Study Guide Geology Energy Resources
 - The Rise of Digital Reading Study Guide Geology Energy Resources
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Geology Energy Resources
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide Geology Energy Resources
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Geology Energy Resources
 - Personalized Recommendations
 - Study Guide Geology Energy Resources User Reviews and Ratings
 - Study Guide Geology Energy Resources and Bestseller Lists
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- Study Guide Geology Energy Resources Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Study Guide Geology Energy Resources Compatibility with Devices
 - Study Guide Geology Energy Resources Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide Geology Energy Resources
 - Highlighting and Note-Taking Study Guide Geology Energy Resources
 - Interactive Elements Study Guide Geology Energy Resources
- 8. Staying Engaged with Study Guide Geology Energy Resources
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide Geology Energy Resources
- 9. Balancing eBooks and Physical Books Study Guide Geology Energy Resources
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide Geology Energy Resources
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide Geology Energy Resources
 - Setting Reading Goals Study Guide Geology Energy Resources
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide Geology Energy Resources
 - Fact-Checking eBook Content of Study Guide Geology Energy Resources
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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