

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 Earth has layers. The deeper you go below the surface, the hotter it gets.



- Crust:** The thin, outermost layer of the Earth. It is composed of solid rock.
- Mantle:** The largest layer of the Earth. It is composed of solid rock.
- Outer Core:** The liquid layer of the Earth. It is composed 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.

Earth's Movements

Divergent Boundaries

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



Convergent Boundaries

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



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 mountains.

Igneous Rocks

Rocks formed when liquid magma cools and hardens.



pebbles

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. They settle at the bottom of a body of water and form sedimentary rocks. Over time, heat and pressure transform sedimentary rocks into metamorphic rocks. If the rocks melt and cool, they can become igneous rocks. This cycle repeats over and over again.

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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 molten 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.



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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 formations



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

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Rocks formed when lava or magma cools and hardens.



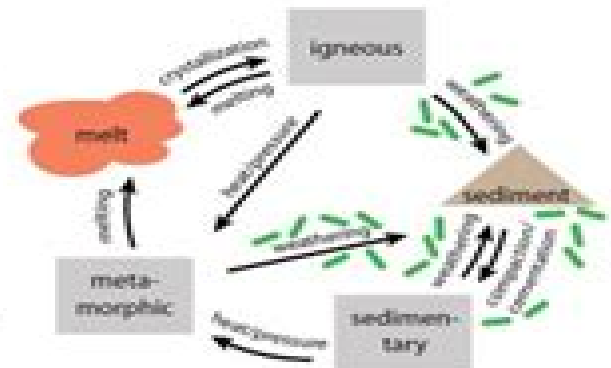
Rocks formed within
sediments are cemented
together



Rock is 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.



48. *Wardlaw, J. H. 1997. Canine. 1000. 1000.*

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