

Geology

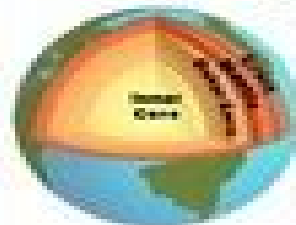
Study Guide & Review Worksheets

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. Pressure and temperature increase the deeper you go below the Earth's surface.

- Crust:** The thin, outermost layer of the Earth. It is composed of solid rock.
- Mantle:** The largest layer that is between the crust and the outer core. It is made of hot, semi-solid rock.
- Outer Core:** The liquid layer surrounding the inner core.
- Inner Core:** A solid sphere at the center of the Earth. It is made of minerals, such as iron and nickel.

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.



Transform Boundaries

- Plates slide past each other.
- Results in earthquakes.



Thermal Energy

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

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Types

Sedimentary Rocks

Formed when sand and silt are compacted and cemented together.



Metamorphic Rocks

Rocks formed by heat and pressure.



Rock Cycle




Fossils

Fossils are the remains of plants and animals that lived long ago.



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**Kirtley Fletcher Mather, Ralph Gordon
Lusk**



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rotational kinematics in the section on uniform circular motion we discussed motion in a circle at constant speed and therefore constant angular velocity however there are times when angular velocity is not constant rotational motion can speed up

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational quantities like θ , ω and α are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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