

# Geology

## Study Guide & Review Worksheets

**Geology**

1. Define and label the following. Page 1

2. December 21 characteristics of each:  
**Crust** **Mantle**

3. What are three examples of sedimentary rocks?

4. An organism is moving. For possible answers, think about what happens. What can this be?

5. Define or explain by the steps that thermal energy causes movement.

**Geology**

**Terms to Know**

- Weathering: The breaking down and changing of rocks and minerals due to natural processes.
- Erosion: The process of wind, water, and other agents wearing down rocks or moving them from one place to another.
- Deposition: When rocks and other materials settle in a new place.

**Layers of the Earth**



The Earth has layers: **Core** (innermost), **Mantle** (middle), and **Crust** (outermost).

- Core:** The innermost, spherical layer of the Earth. It is composed of solid rock.
- Mantle:** The largest layer, located between the crust and the outer core. It is made of hot, semi-solid rock.
- Crust:** The rigid layer surrounding the inner layers.
- Inner Core:** A solid sphere at the center of the Earth, composed of materials such as iron and nickel.

**Earth's Movements**

**Converging Boundaries**

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



**Diverging Boundaries**

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



**Transform Boundaries**

- Plates slide past each other.
- Results in mountain formation.



**Thermal Energy**

Earth's thermal energy causes movement within the Earth. It causes convection that moves the Earth's surface parts. This type of movement can result in convection, conduction, and mountain formation.

**Volcanoes**

Volcanoes are formed when molten rock erupts from the ground.



# Time And Geology Study Guide

**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  $\theta$   $\omega$  and  $\alpha$  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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