

EARTH: INSIDE AND OUT

Earth from the Inside

Let's look at the Earth from the inside out...

The Earth is made up three main layers called the **crust**, **mantle**, and **core**.



The **inner** layer is much thicker (thick)

is much denser



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The next layer is the **mantle**, which is made up of igneous and metamorphic rocks. The top layer is the Earth's **crust**. We live on the Earth's crust.

Lesson Checkpoint:
What are the three layers of the Earth?

What is Soil?

When we walk upon the Earth's crust, we are walking on soil. **Soil** is the loose material that covers much of the Earth's surface that is made up of several different layers: topsoil, subsoil, and bedrock. The three main particles found in **soil** are **salt**, **silt**, and **clay**.

All **soil** contains pieces of weathered rock, humus, air, and water. Soil is extremely **important** because soil supports all life on Earth.



Lesson Checkpoint:

What are three main particles found in soil?

Earth

The Earth has different temperatures and features. Landforms are shapes of rocks and land.



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Did you know there are two types of weathering? The two types of weathering are physical and chemical. **Physical weathering** only changes the **SIZE** of the rock. When water runs over rocks, the particles flowing in the water rub against each other breaking down rocks, **causing the rocks to become smaller**. This is an example of physical weathering.

Ice can cause physical weathering too. When **water** seeps into cracks in rocks and then freezes causing the rock to break apart because ice takes up more space than water. When water freezes, it expands taking up **MORE** space than water, causing the rock to break apart.

Plants growing in a **crack of a rock** cause physical weathering too. When the plant's roots grow larger, they can cause the surrounding rock to break apart.

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- **Landslides** are rapid downhill movement of large amounts of rock and soil.



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Lesson Checkpoint: What causes erosion?



Rapid Changes

Volcanoes cause rapid changes when they erupt on the Earth's crust.



An active volcano is a volcano that erupts often or shows signs of future eruptions. It can erupt several miles from the main volcano.

Dormant volcanoes are volcanoes that have not erupted for a long time but are expected to erupt again in the future.

Earthquake is a sudden shaking or trembling of the Earth's surface. It is caused by the movement of tectonic plates. Earthquakes can be caused by the movement of magma beneath the Earth's surface. Earthquakes can also be caused by the movement of ice.

Faults are cracks in the Earth's crust where blocks of rock have moved past each other. Earthquakes often occur along faults.

Earthquake waves are the energy that travels through the Earth during an earthquake. There are three main types of earthquake waves: P-waves, S-waves, and surface waves.



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Lesson Checkpoint:
What is a dormant volcano?

