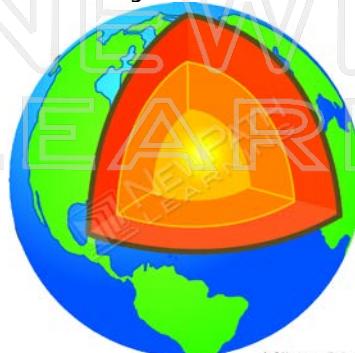


## EARTH: INSIDE AND OUT

### 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** a  
inner a  
it is mo  
(thick)

an  
ntly so  
dense



### PREVIEW

Please [Sign In](#) or [Sign Up](#) to download  
the printable version of this worksheet

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 the 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 made of rocks b



**PREVIEW**

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet



**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.

The second type of weathering is **chemical weathering**. This happens when water reacts with the minerals in the rock changing the rock's composition.

## Changes in the Earth

The Earth is always changing.

## PREVIEW

- **Erosion** is the wearing away of soil and rock by wind, water, or ice.
- **Deposition** is the process where soil and rock are carried by wind, water, or ice and then deposited in new locations.
- **Landslides** are rapid downhill movement of large amounts of rock and soil.

### 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. An active volcano can erupt at any time. Some active volcanoes are miles apart from each other.

Dormant volcanoes are volcanoes that have not erupted in a long time and do not show signs of future eruptions.

Earthquakes are caused by sudden movements in the ground. Earthquakes can cause buildings to shake and fall down.

Faults are cracks in the ground. They are formed by waves of energy moving through the ground. These waves are caused by earthquakes.



## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

[Lesson Checkpoint](#)

**What is a dormant volcano?**



NEW PATH  
LEARNING