



GRADE VI THE INTERIOR OF THE EARTH

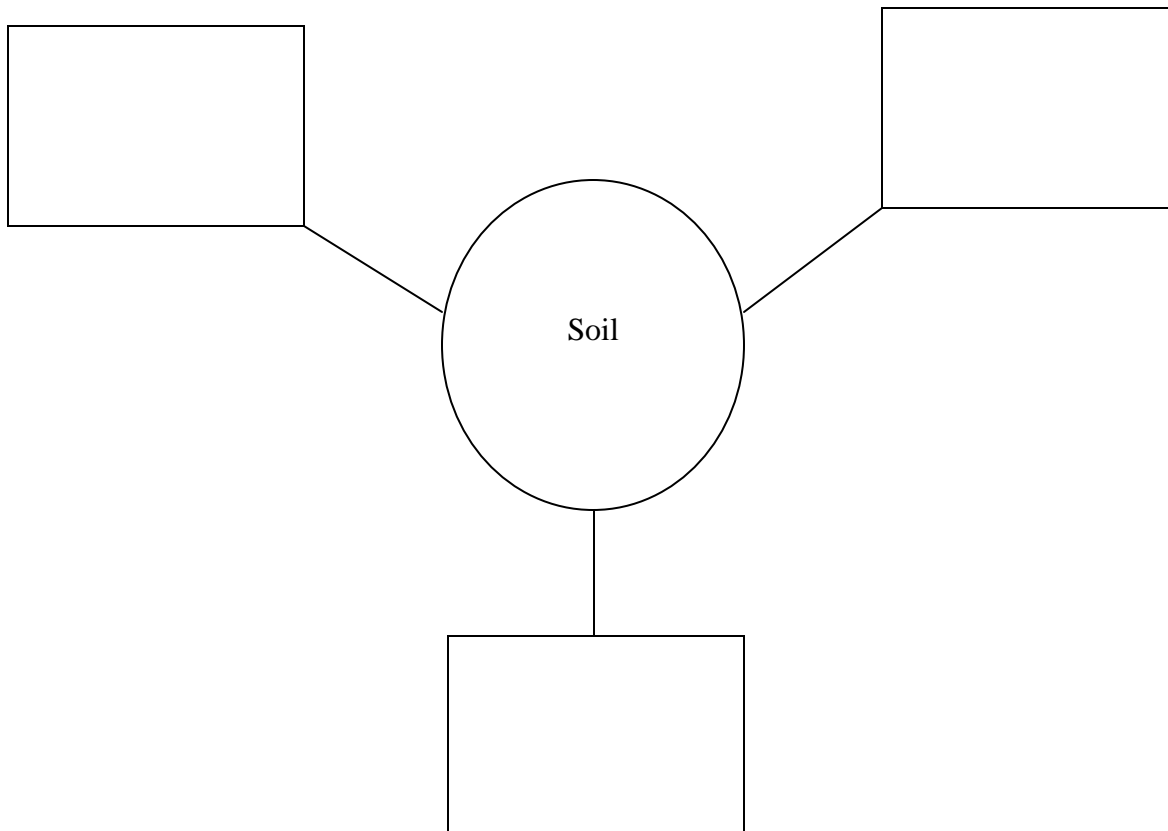
At the end of this module, you should be able to:

- *Describe the different layers of the earth*
- *Describe the characteristics of each layer*



Try to Recall

What are the different kinds of soil? Complete the graphic organizer.





Explore

What is inside the earth? Is the earth made of different layers?

Investigate. Do these activities.

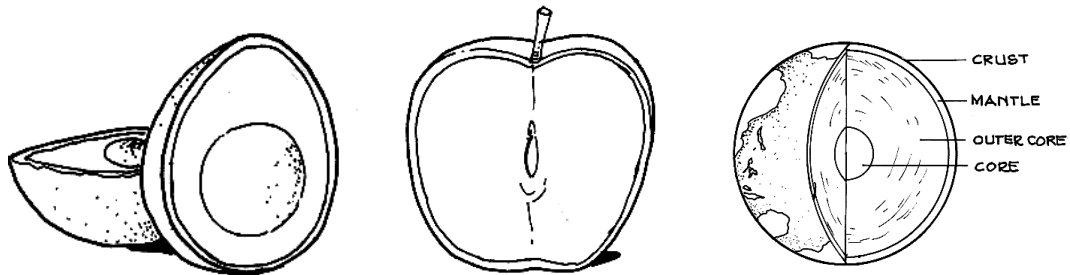
Activity 1

What you need:

- a boiled egg or an apple, a knife,
- a diagram showing the three layers of the earth

What to do:

1. With a knife, cut a boiled egg or an apple into halves.
2. Observe the layers of the egg/apple.
3. Compare the egg/apple with the diagram.



Answer these:

1. What is the topmost layer of the egg/apple?
2. What is the middle part of the egg/apple?
3. What is in the center of the egg/apple?
4. What is the outermost layer of the earth?
5. What is the “middle layer?”
6. What is the innermost layer of the earth?
7. What is the thickest part of the earth?



Fill in the table below:

Egg/Apple	Description	Earth	Description
Shell/skin		Crust	
Flesh		Mantle	
Seeds		Core	

Activity 2

What you need:

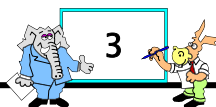
flour, water, drinking glass

What to do:

1. Put some flour into drinking glass. Add water gradually into the flour until the mixture becomes sticky.
2. Observe how the mixture behaves by putting some of it in your hands.
3. Then, form a ball out of the mixture. Again, observe how it behaves.

Answer these:

1. What can you say about the mixture? Is it like a solid or a liquid?
2. Why does it move like this?





Activity 3

What you need:

a styrofoam ball, a knife, colored pentel pens or paint

What to do:

1. Cut the Styrofoam ball lengthwise just like the way you did in the boiled egg or apple. Make sure the interior part of the ball is exposed.
2. Mark the inside part of the ball with colored pentel pens to show the different layers of the earth.

Read and learn.

The earth has three layers – the crust, the mantle and the core.

The Crust

The topmost layer of the earth is the crust which is made of solid rocks. It forms the continents and ocean floor. Scientists believe that the earth's crust consists of an upper and lower crust. The upper crust is made up granite rock formed from magma rich in silicon and oxygen. The lower crust is made up of basalt like rock. Basalt is a dark colored igneous rock formed from magma rich in iron, silicon and magnesium.

The Mantle

The mantle is about 2,900 km. in depth or thickness. Just like the crust, it is made of solid rocks, but because of extreme heat and pressure some of these rocks may even flow very, very slowly.

- Moho separates the crust from the mantle. Mantle is the thickest part of the earth.
- Asthenosphere is the region in the upper mantle made of liquefied rock, due to extreme heat and pressure.

The Core

The core is the innermost part of the earth. It is divided further into two: the outer core which behaves like a liquid and the inner core which is believed to be solid. The outer core consists of molten iron and nickel while the inner core consists of solid iron and nickel.



I LEARNED THAT:

- The earth has three layers, the crust, mantle, and the core



Apply It

How can applying cutting down trees affect the earth as a whole? As a grade 6 pupil, how can you help reduce the amount of carbon dioxide in the atmosphere?



Test Yourself

- A. Draw a diagram of the earth. Describe each layer.
- B. Identify the word or group of words described in each sentence. Write your answer on the blank.
- _____ 1. It is the layer where we live in.
 - _____ 2. This separates the crust from the mantle.
 - _____ 3. This layer behaves like solid and liquid.
 - _____ 4. It is the densest layer of the earth.
 - _____ 5. This is the region in the upper mantle made of liquefied rock formed due to extreme heat and pressure.