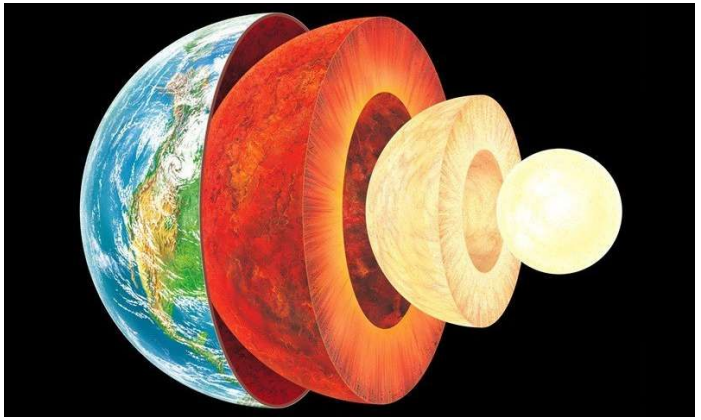
Science Virtual Learning

7th Grade Science

Earth's Interior and Convection Currents

May 18, 2020

7th Grade Science
Lesson: May 18

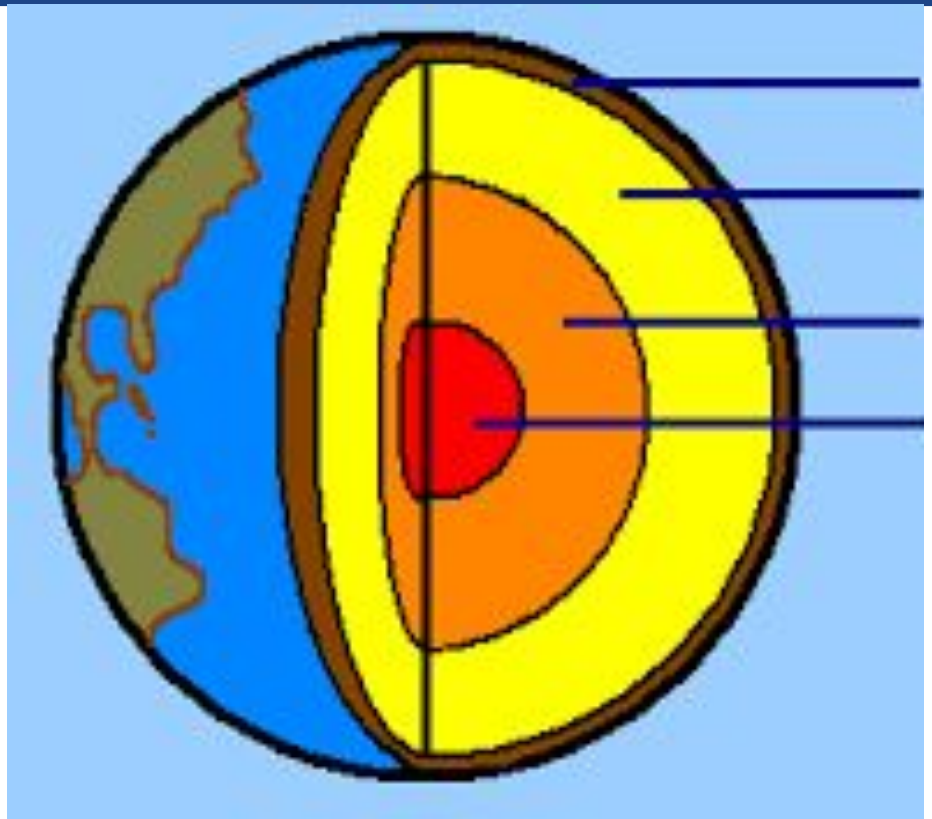


Objective/Learning Target:
I can identify the layers of the Earth's interior.

Warm-Up:
On a sheet of paper, describe what you think the inside of the Earth looks like if you were to dig deeper towards the center.

Practice

First, let's draw a sketch of the Earth on your sheet of paper, similar to this one:

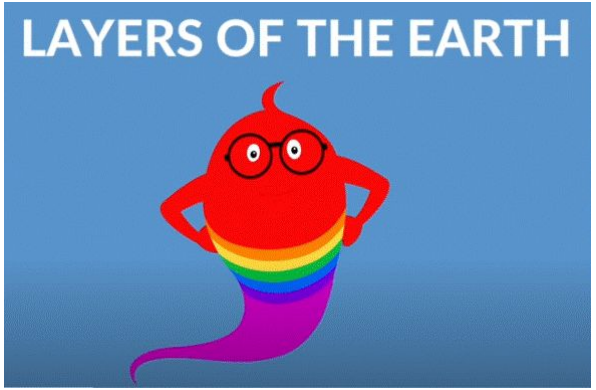


Practice continued

Now, watching this video, let's label our sketch. We will include the following for each layer:

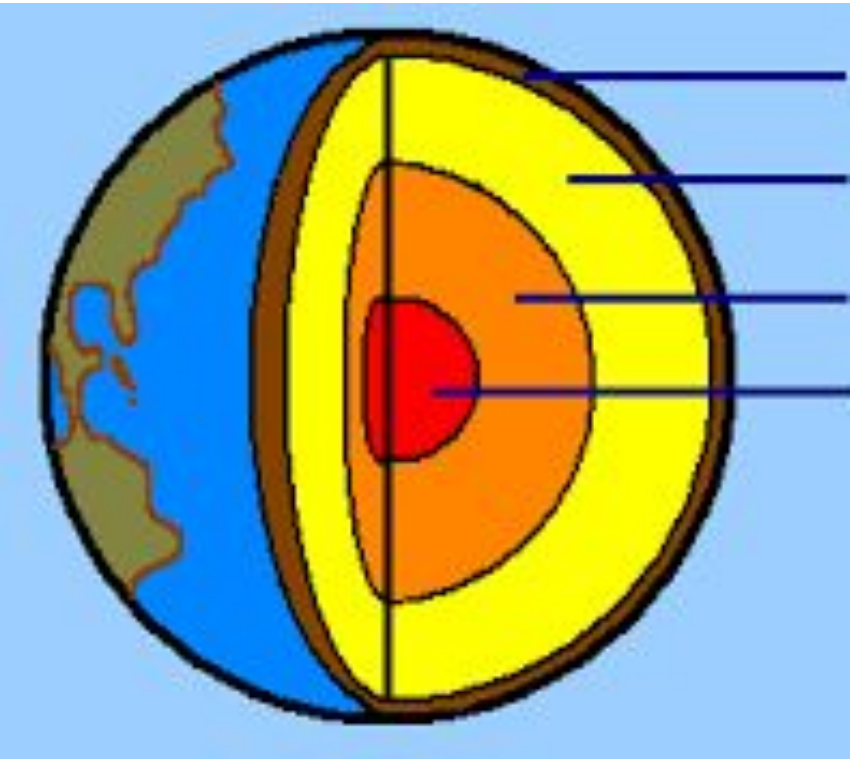
1. **The name of that layer**
2. **If that layer is a solid, a liquid, or somewhere in between (a plastic)**
3. **The thickness of that layer**

Go to the next slide to check your answers



Practice continued

Answers:



Crust, solid, 3-5 miles thick under oceans and 25 miles thick under land

Mantle, in between a solid and liquid, 1900 miles thick

Outer core, liquid, 1400 miles thick

Inner core, solid, 1500 miles thick

Practice continued

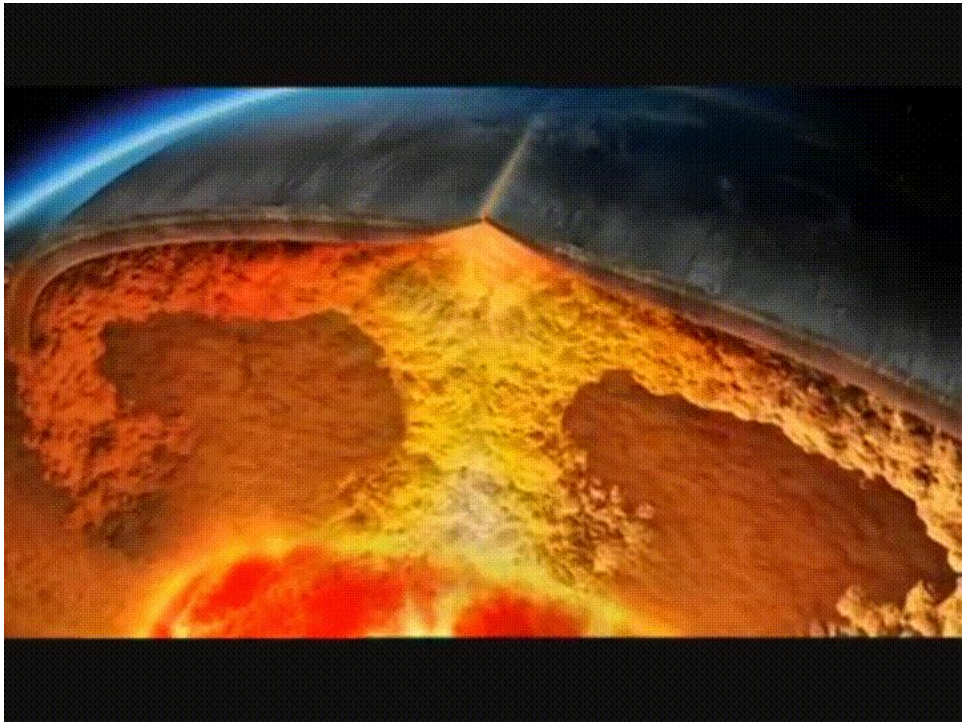
Remember from your lesson on plate tectonics last week, the the Earth is always in motion. But what is causing that motion? The answer has to do with something happening in one of the layers on the Earth's interior, *the mantle*.

On your sheet of paper, make a prediction (hypothesis) as to what you think is happening in the mantle to cause movements on the Earth's surface.

Practice continued

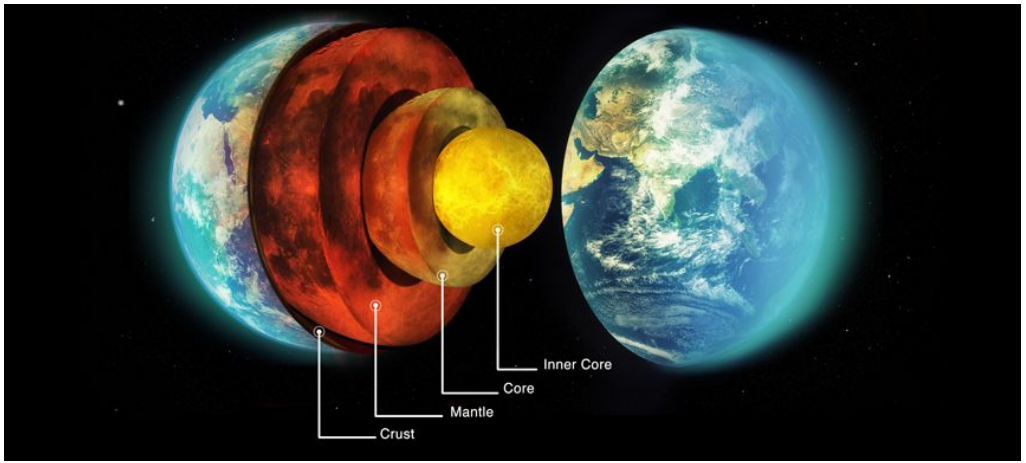
Now, watch this experiment and explanation.

Were you correct? On your paper, explain how your hypothesis was supported OR why it was not supported.



Practice continued

Let’s test our skills and see what we know! Try this Quizizz and see how much you have learned.



Additional resource: This is a fun game to play if you are looking for extra things to try!