So we talked about the landforms and things on Earth's surface, but what about things below??

Layers of the Earth!

Explore more!





3.

Phys.org

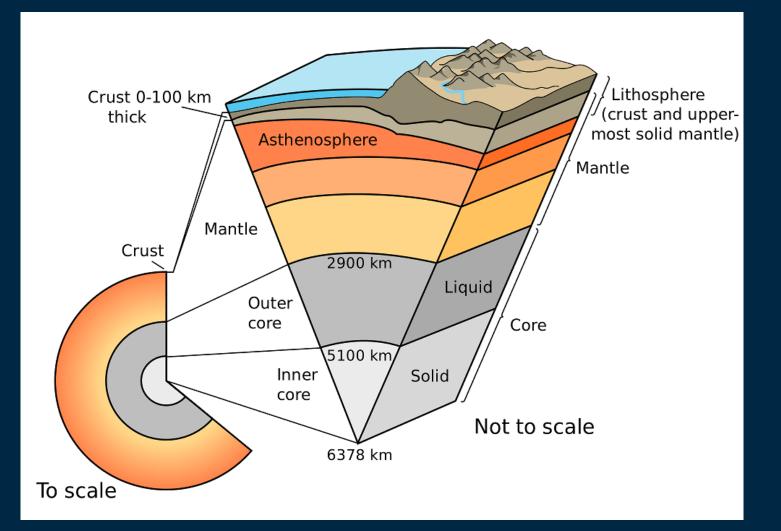
Good detailed description of the reason behind the different layers

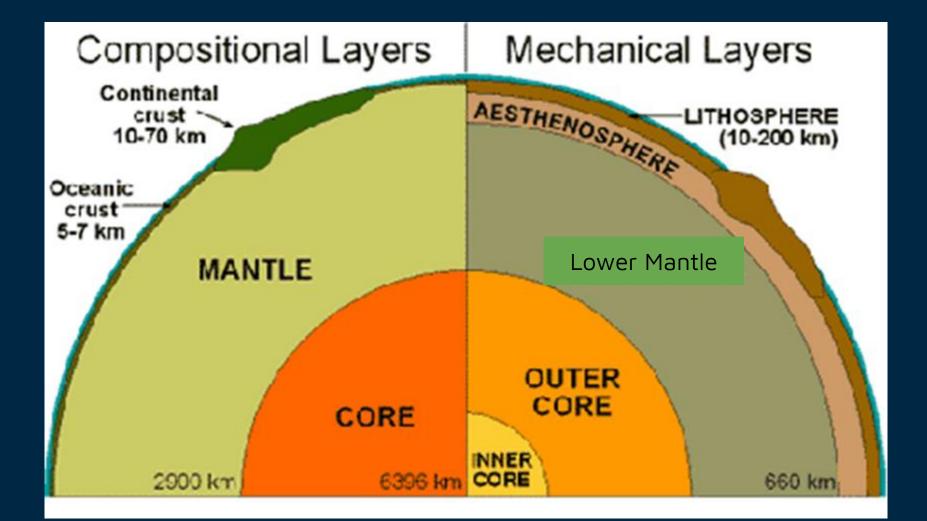
<u>USGS.gov</u>

The USGS site about the layers of the Earth

Nat Geo Sites

Info on the <u>crust</u>, <u>mantle</u>, and <u>core</u>









How far do you think humans have drilled through the layers of the Earth?

Drilling

https://www.youtube.com/wat ch?v=kJyhTp4p7PU https://www.vox.com/unexplai nable/22276597/projectmohole-deep-ocean-drillingunexplainable-podcast https://www.npr.org/2011/03/2 5/134855888/Drilling-To-The-Mantle-Of-The-Earth

Kola Superdeep Borehole

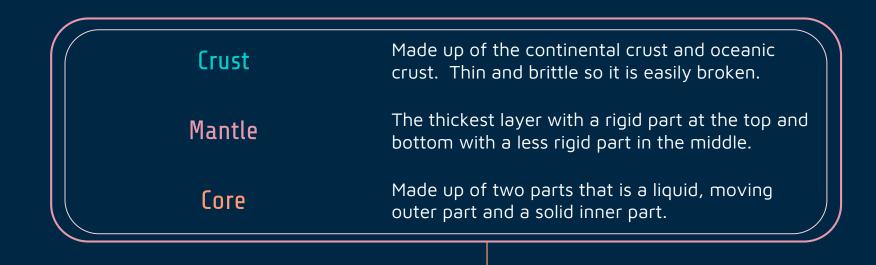
Started in 1965 but discontinued in 1995, this project is in Russia and reached a depth of 40,230 feet (which is 7.619 miles)

Even with all of our technology, this is still the deepest hole in Earth.

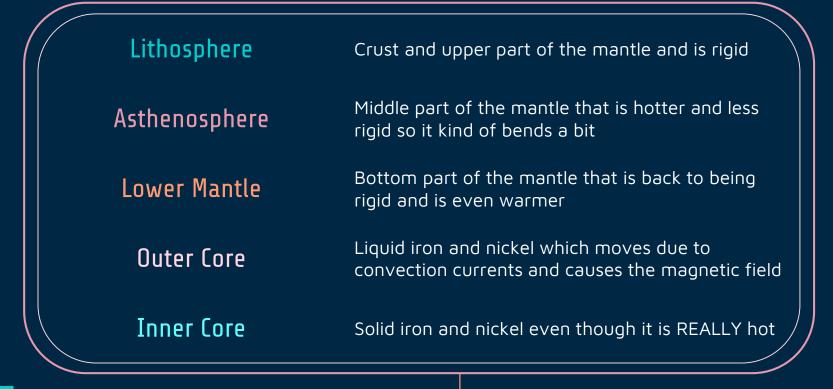
 \square

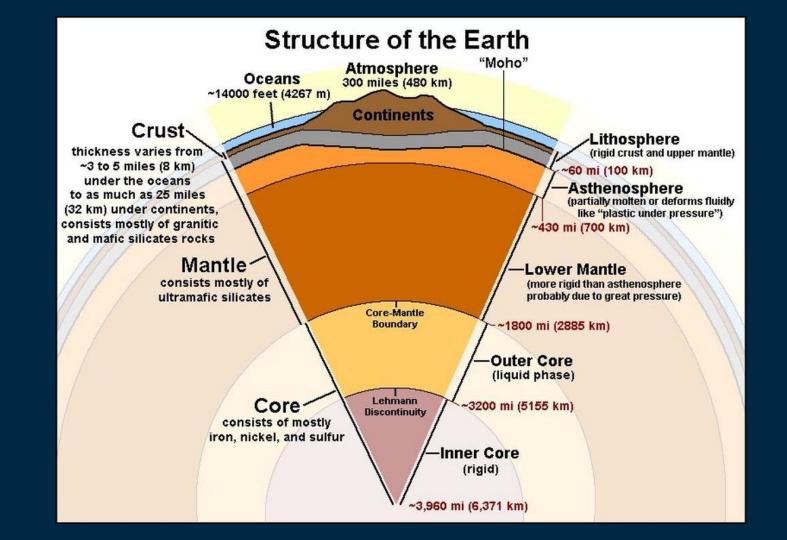


Compositional Layering



Mechanical Layering





How can a cupcake help us understand the layers of the Earth?





 \square

How can you model the layers of the Earth?

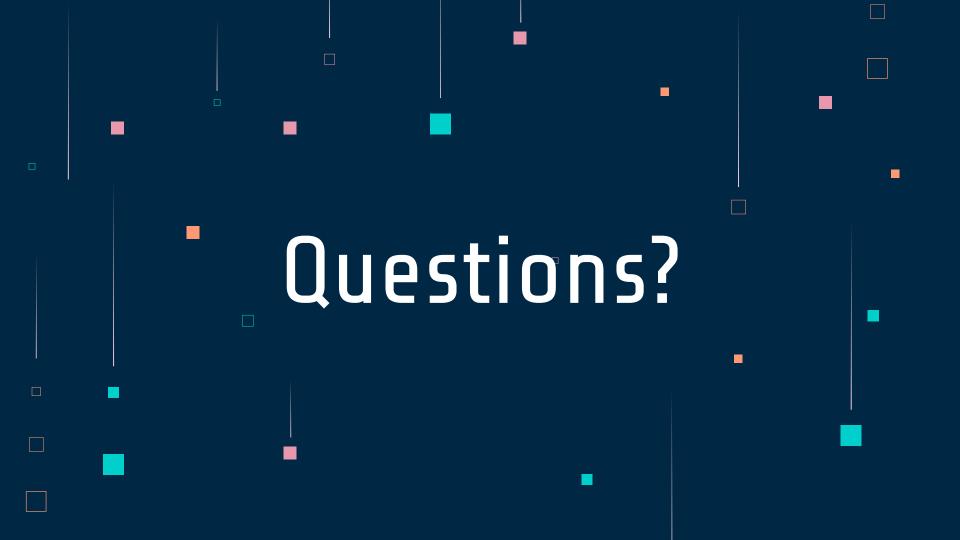
Modeling Project

Your job is to create something to model the layers of the Earth. How do you this is up to you, but I am grading you on three things:

- You created something and labeled either the compositional layers of the Earth or the mechanical layers of the Earth (or, for a challenge, you can use both in the same model!)
- 1. You explained each of the layers you have included
- 2. Your model is unique and interesting

This will be graded as an assessment grade so do your best!





Earth's Inner Core is Growing Lopsided!

Article <u>here</u>

Wrap Up

Describe the layers of the Earth and how we know about these layers.