

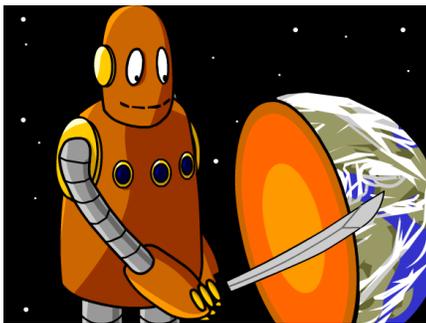
Brainpop—Earth's Structure

Name:

Period:

Watch the Brainpop on Earth's structure, then answer the questions below.

- _____ 1. How do we know what makes up Earth's interior structure?
- a. microscopes
 - b. earthquakes
 - c. volcanoes
 - d. drills
- _____ 2. What are Earth's three main layers?
- a. core, mantle, and surface
 - b. core, mantle, and crust
 - c. inner core, outer core, and mantle
 - d. upper mantle, lower mantle, and crust
- _____ 3. Which part of Earth do we live on?
- a. crust
 - b. mantle
 - c. outer core
 - d. inner core
- _____ 4. Where is Earth's crust the thickest?
- a. under oceans
 - b. under mountains
 - c. at the poles
 - d. at the equator
- _____ 5. Which of the following statements is an *opinion* about the mantle?
- a. it makes up the bulk of Earth's mass
 - b. heat churns through it
 - c. it contains iron, silicon, magnesium, and oxygen
 - d. it is the most important layer of Earth
- _____ 6. As you move from the outer mantle towards the core, what changes happen?
- a. it gets cooler and more solid
 - b. it gets hotter and more solid
 - c. it gets cooler and less solid
 - d. it gets hotter and less solid
- _____ 7. If Earth's mantle were completely solid, what could not move around?
- a. tectonic plates
 - b. mantle plates
 - c. earthquake plates
 - d. volcanic plates
- _____ 8. Which is the only entirely liquid layer of Earth?
- a. the upper mantle
 - b. the outer core
 - c. the inner core
 - d. the lower mantle
- _____ 9. Which of the following statements about the composition of Earth's inner core is true?
- a. it is mostly made of iron
 - b. it is mostly made of nickel
 - c. it is mostly made of cadmium
 - d. it is mostly made of magnesium
- _____ 10. What effect does the spinning of Earth's core have?
- a. it creates gravity
 - b. it creates matter
 - c. it creates Earth's mountains
 - d. it creates Earth's magnetic field
- _____ 11. How deep would you have to drill to reach the center of Earth?
- a. about 60,000 km / 42,000 miles
 - b. about 600,000 km / 420,000 miles
 - c. about 600 km / 420 miles
 - d. about 6000 km / 4200 miles



Look at the image to the left from the cartoon. What do Moby, the sword, and Earth all have in common?

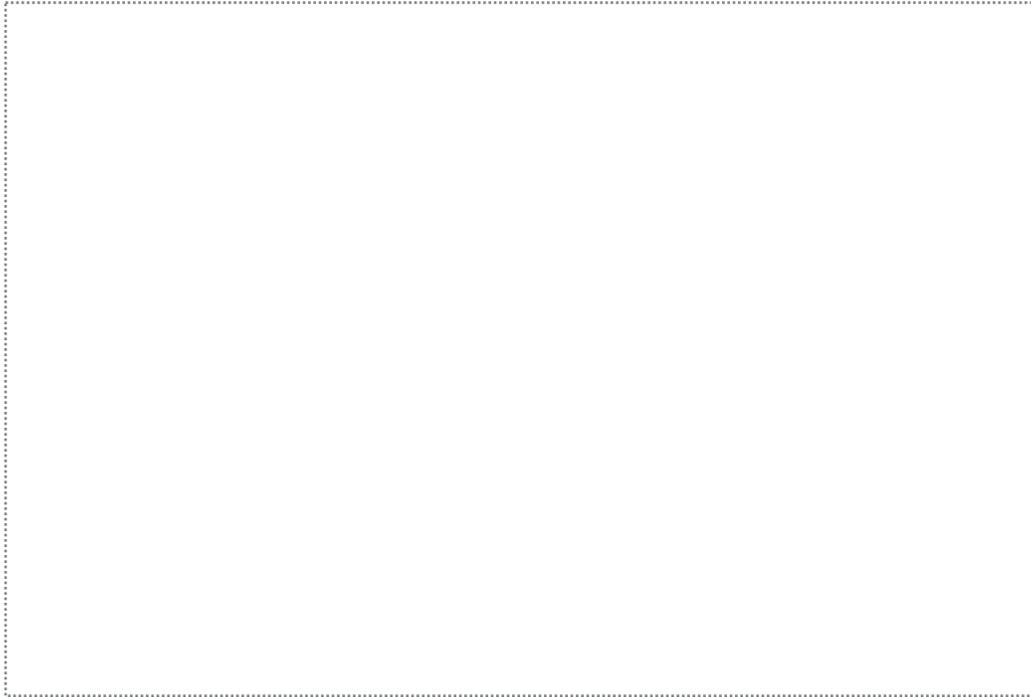
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Label the layers

In the space below, draw a cutaway diagram of Earth. Label each of the following layers: crust, mantle, and core.



Give that layer an award!

Which part of Earth (crust, mantle, or core) should earn the award for...

- the thinnest crust? _____
- the coolest layer? _____
- the deepest layer? _____
- the layer with the widest temperature range? _____
- the layer that supports the most life? _____
- the layer that powers tectonic plate movement? _____
- the thickest crust? _____