

Worksheet: Dig through the Earth

Name: _____ Date: _____

Part 1: Where would you come out?

1. My guess: if I dug straight down from here, I'd come out in _____.
2. My location: latitude _____ ° N / S longitude _____ ° E / W
3. My antipode (flip the latitude; longitude = 180° – mine, other side): latitude _____ ° _____ longitude _____ ° _____
4. Using digthru.to, I would actually come out in: _____
5. The nearest land to my antipode is _____, about _____ km away.
6. Why do you think most tunnels through the Earth end in the ocean?

Part 2: Earth's layers

Layer	Depth (km)	Solid or liquid?	About how hot?	One cool fact
Crust				
Upper mantle				
Lower mantle				
Outer core				
Inner core				

Part 3: Think about it

7. Walking to your antipode is about 20,000 km. Tunneling straight through is about _____ km. Why is the tunnel shorter?
8. Nobody has ever been to the mantle or core. Name one way scientists know what's down there: _____
9. Is the outer core solid or liquid? _____ How do we know?
