

Earth Structure Notes

- The deepest humans have dug straight down is _____. This is at the _____ built in Russia by the Soviet Union, beginning in _____.
- Drilling stopped in _____.
- They stopped drilling because _____

How do we know the Earth is a sphere?

- Proof:
 - o Ships appear to _____ as they go over the _____.
 - o Earth's _____ on the Moon is _____.
 - o Different _____.
 - o Different _____ to Polaris as you travel North or South.
 - o Photos from _____!

Earth has 4 layers:

1. _____
2. _____
3. _____
4. _____

THE CRUST

- o There are 2 types of crust:
 - o _____ (30-50 km thick)
 - Less dense rocks (eg. Granite and sandstone)
 - o _____ (5-10 km thick)
 - More dense rocks (eg. Basalt and Gabbro)

THE MANTLE

- o The Mantle is a _____ layer of rocks and magma about _____ thick.
- o Over _____ 'C.
- o The Crust _____ on the Mantle.
- o _____ within the Mantle causes the plates to _____.

THE OUTER CORE

- o The Outer Core is _____ iron.
- o _____ to _____ km deep.
- o Over _____ 'C.
- o _____ within the Outer Core (along with the rotation of the Earth) creates Earth's _____.

THE INNER CORE

- o A _____ sphere of _____ (and Nickel), suspended in the liquid _____.
- o _____ to _____ km deep.
- o Over _____ 'C. Very Hot!

Questions:

1. Draw and label the structure of the Earth in detail.
2. What happens when you dig straight down?