

## A look on the inside

Volcanoes begin deep inside the earth.



Earth is made up of four layers.

Draw arrows to these parts on the diagram.

The incredibly hot **inner core**.

- It's about 1,300 kilometres thick.
- That's about 300 km less than the length of New Zealand.

The very hot **outer core**.

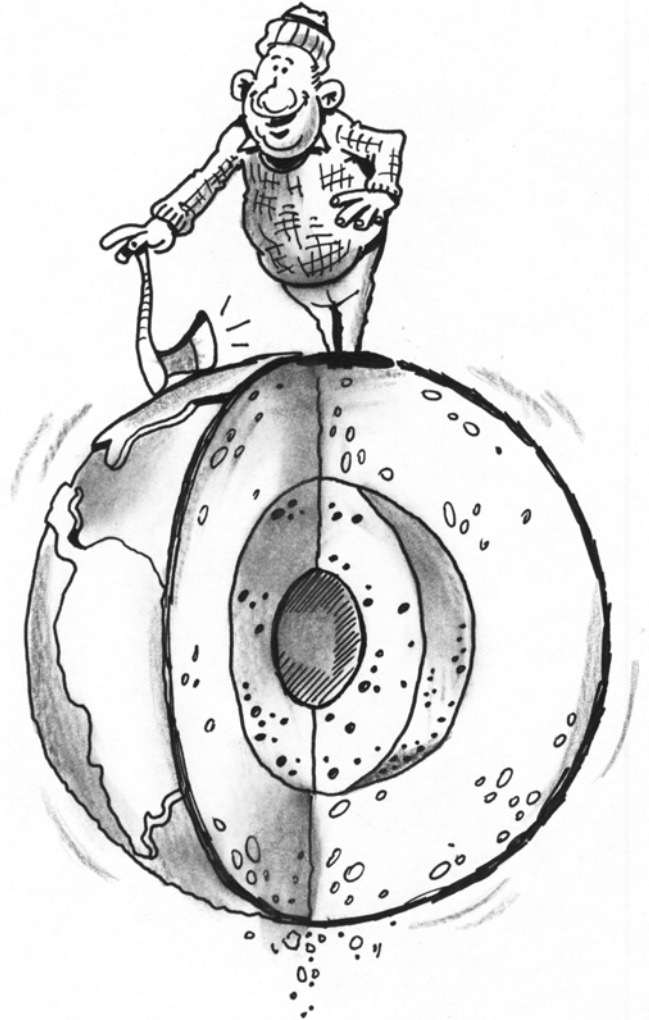
- It's around the inner core
- It's a tad over 2,000 km thick.

The **mantle**.

- This heavy rock surrounds the outer core.
- It's about 2,800 km thick.

The **crust**.

- It's the earth's outer coating
- It's up to 70 kilometres thick.
- That's quite thin so there are places where molten rock can break through.



**Now build a model!**

Build a 3D model of earth and use it to explain what's inside.

Just recycle some materials like:

- Some plastercine or play dough, half a tennis ball and a jaffa !
- Half a netball, hay, newspaper and a tennis ball;
- Half a hard boiled egg, a cherry tomato and some breadcrumbs!

- The crust is thickest in high mountain places
- It's as much as 70 km thick on high mountain ranges
- It's thinnest below the deepest part of the oceans
- Its base can be as little as 7 kilometres under the sea floor.



Walking on the crust

**Try showing this on your model!**