

Aim

• To describe what Inge Lehmann discovered about Earth's core.

Success Criteria

- I can describe Inge Lehmann's life and work.
- I can explain what she discovered about Earth's core.
- I can explain how Earth's core helps create igneous rocks.

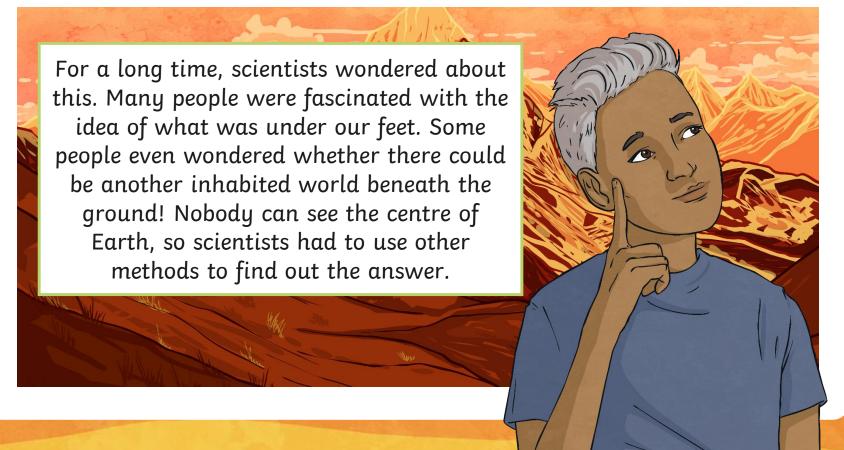
What's Under Our Feet?





The ground we walk on feels solid. But what is underneath the ground?

Talk to your partner about your ideas.



Inge Lehmann

Inge Lehmann was the scientist who finally discovered what lies in the centre of Earth.

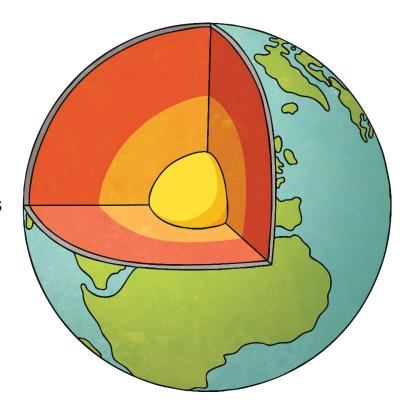
Sheet shows a picture of Inge
Lehmann, and has space to fill in
facts about her life and work.
Around the room, you will find
key pieces of information about
Inge and what she discovered.
Move around the room to find the
facts you need to complete your
activity sheet and learn more
about this important woman.



The Centre of the Earth

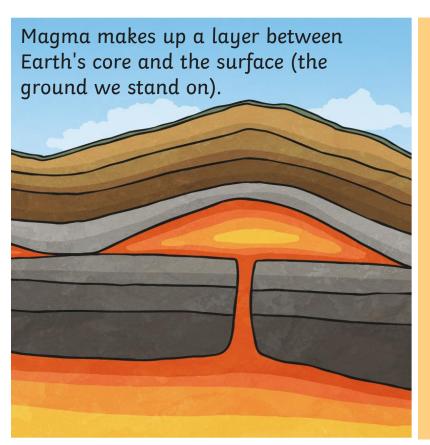
Inge discovered that below Earth's surface was a solid core surrounded by molten liquid rock.

- Before her discovery, scientists thought that Earth's core was liquid too.
- Her ideas explained the strange readings from earthquake waves that had previously puzzled scientists.
- Thanks to Inge's work, we now know that Earth's core is made of solid iron and nickel and that it is about as hot as the surface of the Sun! It has a radius of about 1220km, so it is slightly smaller than the Moon.
- Earth's core is solid because of the pressure from the outer layers of Earth pushing down on it.



The Centre of the Earth

The immense heat of Earth's solid core is enough to melt rocks. This melted rock is known as magma.



- As the magma cools near the surface of Earth, it starts to turn back into solid rock.
- The rocks formed by cooling magma are called igneous rocks.
- Examples of igneous rock include pumice, granite and obsidian.

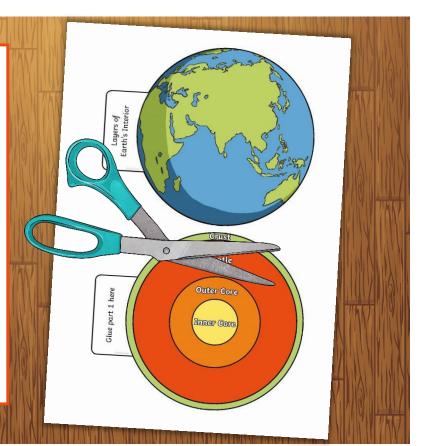


Earth Layers

Without Inge's hard work and research, these facts may never have been known!

Use your **Earth Layers Interactive Visual Aid** to create a paper model of Earth and its core.

Can you add information about Earth's core to your paper model?
See how many facts you can think of!



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