

Year 5 - Space Scientists



Science

Links to Reception Space
Links to Y5 Mission to Mars

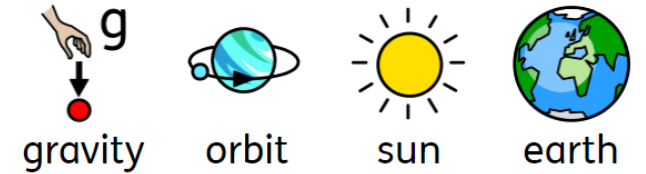
What shape is the Earth?
How do we know?

This is the Earth's atmosphere that can be thought of as an invisible shield that protects Earth from most of the stuff floating around in space. It is made up of gases.

How could you investigate the power of the sun?

Why don't the planets crash into each other?

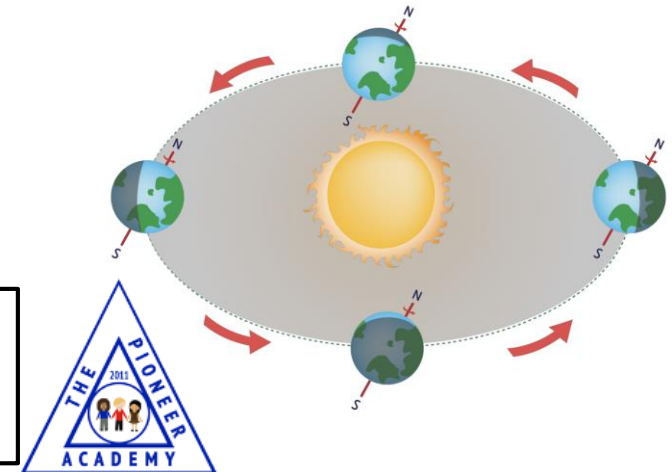
- Does the Sun warm land or water quicker/better?
- How long does it take the Sun to heat a beaker of cold water by one degree?
- Which materials absorb the most heat and which the least?
- Does the Sun make plant leaves green?
- Can we turn the Sun's energy into movement?
- Can we use colour to increase the Sun's power?
- Does shade reduce the Sun's power?
- Can we cook with a solar oven?



shadow

The Earth is tilted at an angle of 23° on an invisible axis. How do shadows change over time?

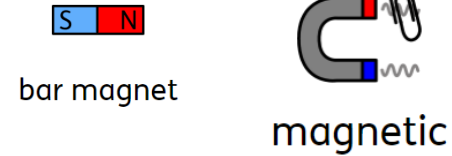
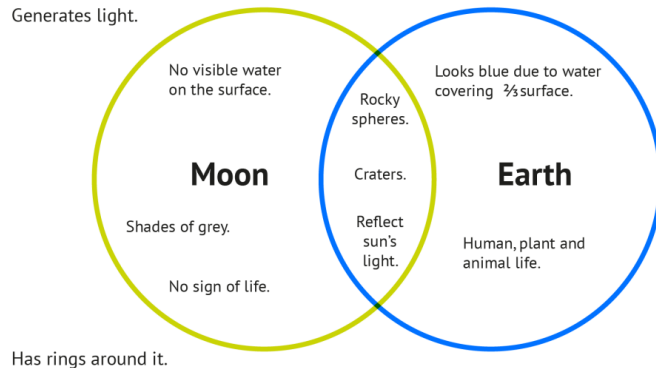
Do people living in the tropics experience all four seasons?



How might you remember the names and shapes of the phases of the Moon?

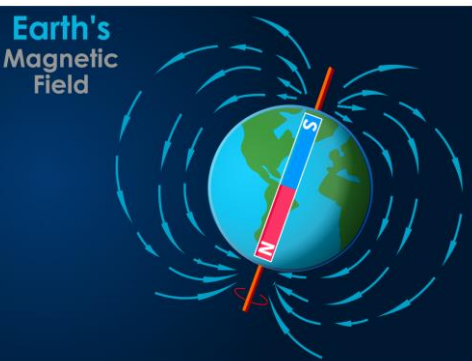


How are the earth and moon the same and different?



bar magnet magnetic

How is the earth like a bar magnet?



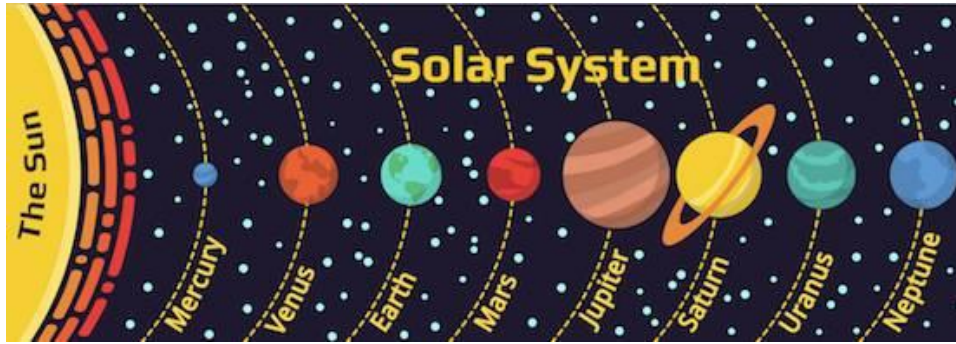
Earth's Magnetic Field



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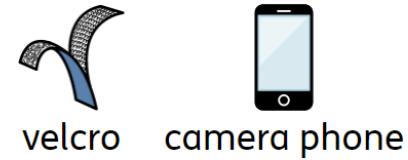
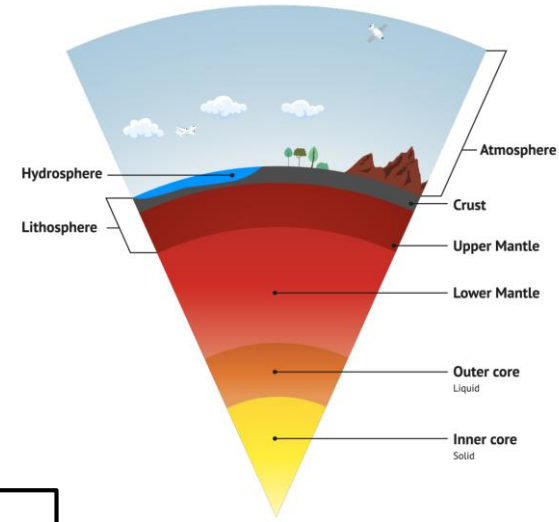
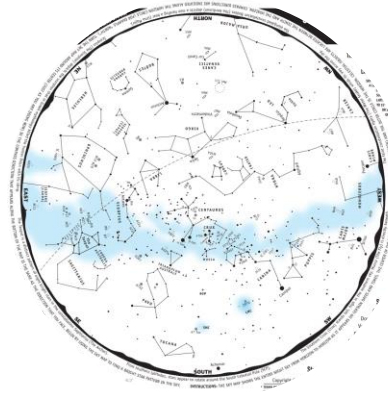
History: There are 88 constellations in the sky. Many are named after characters or objects from ancient Greek myths.

DT: science fiction or science fact?

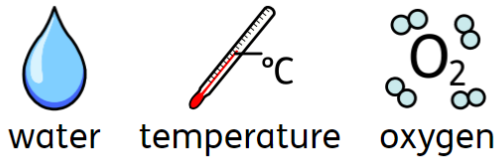
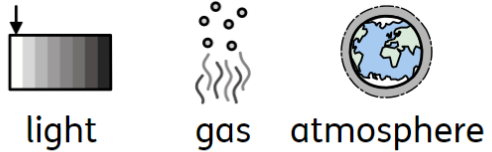
Geography: What is Earth made of?

Science: Why is Earth the best place for humans to live, thrive and survive?'

History
Who was the most significant astronomer connected to the theory of the earth being round?



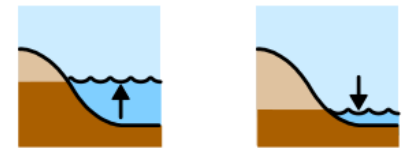
DT: Constellation cameras



ART: Create a nebula



Geography: Tides are the rise and fall of sea levels around the world. There are two high tides and two low tides each day.



high tide low tide

History: The first Moon landing occurred on 20 July 1969. The US Apollo 11 mission landed the first men on the Moon: Neil Armstrong and Buzz Aldrin

