## Year 7 <br> Science work

The planets in our Solar system




## South Pole-Aitken crater

ab is the biggest crater on the measurin about 1553 miles wide.

## emperature

On Earth, the average temperature is 14 degrees Celsius, and on the Moon, the average temperature during the day is about 127 degrees Celsius (260 degrees Fahrenheit) and at night, temperatures can drop to about $\mathbf{- 1 7 3}$ degrees Celsius ( -280 degrees Fahrenheit).
 Craters
Earth has very few craters, instead, it is volcanic and is abundant in hills. The Moon, however, has lots and lots of craters created by asteroids hitting its surface.

Earth spins anticlockwise and completes one ful orbit of the Sun every 365.25 days, whereas the moon spins anticlockwise and completes one full orbit of the Earth every $\mathbf{2 7 . 5}$ days. This is called a Lunar Month.

## Did you know?

Since the moon's very early days, its orbit and its rotation have taken the same amount of time, therefore, the same side of the Moon (known as the near side) has always faced us.

Did you know?
On average, the distance it takes for Earth to travel around the Sun is $\mathbf{1 4 9 . 6}$ million km ( $\mathbf{9 3 . 0}$ million miles).

## What's in the core?

Within the centre of the Earth, lots of magma and molten rock dwells at a deadly hot temperature. The Moon has a dense, metallic core, largely composed of iron and some nickel.

How long is a day?
A day on Earth is $\mathbf{2 4}$ hours and a day on the Moon is 29.5 Earth days.

## Atmosphere

The atmosphere on Earth is about $78 \%$ nitrogen and $21 \%$ oxygen. There is also a small amount of other gases. On the Moon, there is no atmosphere, only a small layer of gases on the lunar surface, technically considered to be an exosphere.




## Distance from Sun <br> Between $2,741.3$ million km to $\mathbf{3 , 0 0 3 . 6}$ million km ,

 depending on its position in orbit.
## Did you know?

Uranus doesn't have any distinct features aside from its rings except from a very large family of moons that orbit it, some of which are called: Titania, Umbriel, Miranda and Oberon.

## How long is a day?

17 hours and 14 minutes in Earth time.

## Did you know?

Uranus also has rings, although they are not as big and bold as Saturn's. They are a red-ish colour, and each ring is much thinner than Saturn's, which is probably why people think that Saturn is the only planet that has them.


## Spins

Uranus spins anticlockwise whilst its axis is

