

Tuesday 10th February 2015

LI: I can write a scientific explanation using my knowledge about the Earth, Sun and Moon.

Earth, Sun and Moon,

Our year six topic has been about the Sun, Earth and Moon, these are some of the things i've learnt this term.

Earth:

The Earth is the spherical ball we live on. Tilted at eighty degrees the Earth spins on its axis, this takes 24 hours to rotate once. Although, as the Earth rotates it also orbits our sun, this takes a year and a quarter to orbit the sun once.

Seasons:

Seasons are created when the Earth tilts towards the sun, at different angles we get different amounts of sunlight. When we are tilted towards the sun, it is summer but when we are tilted away, it is winter.

Day and night:

You get day and night when the Earth rotates itself. When it is night, our country is facing away from the sun, consequently it is night. When it's day our country is facing towards the sun, therefore it is day.

Sunrise and sunset:

We also get sunrise and sunset from rotating, when the sun rises in the morning, it is actually the Earth which is rotating, not the sun rising!

Shadows:

The shadow is at its longest at sunrise and sunset, because the sun is at its lowest point in the sky. At mid-day the shadow is at its shortest because the sun is directly above the figure. Finally it goes back to sunset and the shadow is at its longest again.

Moon phases:

Moon phases are the different sizes of moons. A new moon is when the moon is getting no sunlight and is not visible. A waxing crescent is when the moon has a little sunlight to make a crescent shape. When the sun is showing up more of the moon it is called a first quarter moon. Then, when the sun shows even more of the moon it is called a waxing gibbous and finally a full moon before it starts going back down the scale again. At the phase of a full moon the moon has full sunlight consequently you see a big, bright moon. When it starts going back down the scale again, it is called a waning gibbous because the moon is starting to have less sunlight. When it is a last quarter moon it has even less sunlight and finally, the waning crescent has the least amount of sunlight before a new moon starts again.

Lunar egg:

The moon is not actually a spherical shape! it is an egg shape! The reason why we don't see a white egg in the sky at night is because we only ever see one side of the moon!

Distant Moon:

The Moon is moving away from our planet 3.8 mm per year! that's about as fast as your fingernails grow.

Whilst learning about the Sun, Earth and Moon, I've learnt that: \neq

The Moon takes 27 days, 7 hours, 43 minutes and 11.6 seconds to orbit the Earth once, Moon phases and more. I would also like to know the distance between the Sun, Earth and Moon.