How else

does the

Earth

move?

What

causes day

and

night?



warningi

Earth and Space





Day and Night

its axis.

The Earth spins on

The Earth takes 24

completely rotate on

hours (I day) to

The Earth spins

The side of the

Earth facing the

Sun is in daytime; the other side of the Earth facing

away from the Sun

is in night time.

The Sun doesn't

move - it is the

Earth that moves.

Due to the Earth is

rotating, the Sun

appears to move

across the sky as

the day goes on.

once in a day.

its own axis

The Sun and The Solar System		
What is the Sun?	The sun is a star at the centre of our solar system.	
What is the solar system?	The solar system is the collection of eight planets and their moons that orbit round the sun (which is actually a star).	

NEVER LOOK DIRECTLY AT THE SUN

EVEN WHEN WEARING SUNGLASSES!

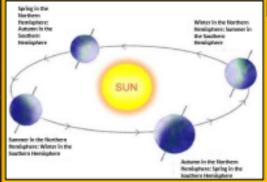
The Company The Colon Code

Morousy Our Solar System (Not to scale) Orbit Man Mose. Substitute Solary Sola

The Earth - Year Length and Seasons The Earth takes 365 and a quarter days to orbit (ap around) the Sun.

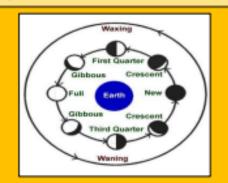
days to orbit (gp around) the Sun.

Due to the extra quarter day it takes to orbit the Sun, every four years on Earth is a leap year! The Earth is held in its orbit round the Sun by the Sun's gravitational pull. It is the Earth's tilt that causes the seasons.



The Moon

A moon is a celestial body that orbits a planet. The Earth has one moon; Jupiter has four large moons and numerous small ones. The Moon orbits the Earth anticlockwise and takes approximately 28 days. The Moon spins once on its axis every time it orbits Earth. This means that we only see one side of the Moon. The Moon has different phases depending on where it is in its orbit. The Moon's gravity causes high and low tides.



Other Planets in the Solar System

The other planet in the Solar System are Mercury, Venus, Mars, Jupiter, Saturn, Uranus and Nepture (Pluto was reclassified as a dwarf planet in 2006). Each planet has their own orbit around the sun that differs from that of Earth.

Earth has one moon; Jupiter has 4 large moons and numerous smaller moons

WARNING

NEVER LOOK DIRECTLY AT THE SUN EVEN WHEN WEARING SUNGLASSESI

Key Vocabulary and Phrases		
axis	An imaginary line through the middle of something	
orbit	The curved path in space that is followed by an object going round and round a planet, moon, or star	
planet	A large, round object in space that moves around a star	
Spherical body	An object that is in the shape of a sphere. The Sun, the Earth and the Moon are approximately spherical bodies, meaning they are almost the shape of a sphere.	

What causes Sunrise and Sunset?

Year 5

Science

Key Vocabulary and Phrases			
ask questions	Use the question words What, where, when why, how		
compare and contrast	Look at two or more objects and describe similarities (what is the same) and differences (what is different)		
classify, sort and group	Organise objects by their features (e.g. colour, size, shape).		
diagram	A labelled picture		
record data	Drawings, scientific diagrams, photos, classification keys, tables, bar graphs and line graph, writing and numbers are ways to show what I have found out.		
reporting and presenting findings	Civing reasons, explaining causes and relationships, explaining results and trusting its accuracy		

How I could record my findings



you observed, e.g. bread

going mouldy



eyes etc.

Carroll Diagram For CLASSIFYING/GROUPING

	Red	Blue
Square		
Triangle		

Use this when you want to put objects into categories for having a property or not, e.g. prime/not prime numbers against even/not even (odd) numbers

Working Scientifically - Earth and Space



What I could investigate

Describe and compare the movement of Earth and other planets relative to the sun





Are shadows the same size throughout the day? Create a shadow clock



Equipment I could use

Sun dials for observing and tracking the position of the sun.



Plasticine for creating models of the solar system.



Chalk for measuring the size and shape of shadows.



Chromebooks for researching

