

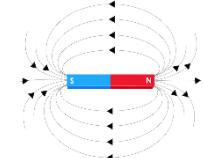
	<b>8L Earth and Space</b>
---	---------------------------

<b>1. Gathering the Evidence</b>	
<b>Astronomer</b>	A scientist that studies space.
<b>Early Astronomers</b>	Could only use their eyes to make observations.
<b>Ptolemy</b>	Egyptian astronomer (90-168) Proposed a model with the Earth in the centre and the Moon, Sun and planets orbiting the Earth.
<b>Nicolaus Copernicus</b>	Polish astronomer (1473-1543) Suggested the Earth and other planets move in circles around (orbit) the Sun.
<b>Reaction to Copernicus' Model</b>	It was not accepted straight away. However observation made by Galileo using one of the first telescopes provided more evidence to support it.

<b>The Model of the Solar System</b>	
<b>Phases of the Moon</b>	The Moon appears different shapes at different times due to its position relative to the Earth and Sun. 
<b>2. Seasons</b>	
<b>Summer</b>	Longer days than nights, Sun high in the sky.
<b>Winter</b>	Longer nights than days, Sun not very high in the sky.

<b>Cause of Seasons</b>	Due to the tilt of the Earth's axis by 23.5°.
<b>Causing Summer</b>	When the northern hemisphere is tilted towards the Sun it is summer in the UK.
<b>Causing Winter</b>	When the northern hemisphere is tilted away from the Sun it is winter in the UK.
<b>Summer Sun</b>	Because the Sun is higher in the sky in summer the heat is more concentrated, making it feel warmer

<b>3. Magnetic Earth</b>	
<b>Compass</b>	A magnet that points north.
<b>North-Seeking pole</b>	The end of a bar magnet that points north-shortened to north pole.
<b>South-Seeking pole</b>	The end of a bar magnet that points south-shortened to south pole.
<b>Attract</b>	When two magnets are pulled together. Opposite poles will attract each other.
<b>Repel</b>	When two magnets are pushed apart. The same poles will repel each other.

<b>Magnetic Field</b>	The area around a magnet where it has an effect. Can be found using iron filings or a small compass.
<b>Magnetic Field Diagram</b>	
<b>Magnetic Field Strength</b>	Strongest closest to each pole, the field gets weaker as you get further from the magnet.
<b>Magnetic Field Direction</b>	The direction of a magnetic field is always from the north pole towards the south pole.

<b>5. Beyond the Solar System</b>	
<b>Constellation</b>	Pattern of stars
<b>Stars</b>	Huge balls of gas that give out large amounts of energy. The Sun is a star.
<b>Stars At Night</b>	Appear less bright than the Sun because they are further away.
<b>Galaxies</b>	Large groups of stars.
<b>Milky Way</b>	The galaxy our Sun is in.
<b>Universe</b>	Made up by all of the millions of galaxies.