

## Earth and Beyond (Physics)

Year 8, Spring Term

<i><b>You will be taught</b></i>	<i><b>You should know</b></i>
how the movement of the Earth causes the apparent daily and annual movement of the Sun and other stars	that the Earth is one of several <b>planets</b> which <b>orbit the Sun</b> ;
	that <b>night and day</b> are caused by the <b>spin</b> of the Earth on its axis
	how the <b>tilt</b> of the Earth and its <b>orbit</b> around the Sun creates the <b>seasons</b>
	how we get eclipses of the Sun and Moon
the relative positions of the Earth, Sun and planets in the solar system	that a satellite is something that orbits a planet and that the <b>moon is a satellite of the Earth</b>
	that the <b>solar system</b> is part of the Milky Way <b>galaxy</b> , and that the <b>Universe</b> contains many such groups of stars or galaxies;
	that distances in space can be vast and can be measured in light years
about the movements of planets around the Sun and to relate these to gravitational forces	that it is <b>gravitational forces</b> which keep the Moon in orbit round the Earth and planets in orbit round the Sun
that the Sun and other stars are light sources and that the planets and other bodies are seen by reflected light	that the planets and our Moon are visible (even though they are not light sources) because they <b>reflect light from the Sun</b>
about the use of artificial satellites and probes to observe the Earth and to explore the solar system	that <b>artificial satellites</b> are used for communication, for monitoring conditions on Earth and for exploration of the solar system.

[http://www.bbc.co.uk/schools/ks3bitesize/science/physics/earth\\_beyond\\_intro.shtml](http://www.bbc.co.uk/schools/ks3bitesize/science/physics/earth_beyond_intro.shtml)