

# PHYSICS – YEAR 7 – UNIVERSE

A DAY & NIGHT, SEASONS		
1	Earth's axis	An imaginary pole around which the Earth rotates once every 24 hours.
2	Day and night	Caused by the Earth's rotation. Day time occurs for the half of the Earth facing the Sun. Night time occurs for the half in shadow.
3	Season	Caused by the tilt of the Earth's axis. Day time is longer in the summer and shorter in the winter.

C BEYOND THE SOLAR SYSTEM		
1	Galaxy	Collection of stars held together by gravity. There are billions of galaxies in the universe.
2	Milky Way	Our galaxy. The solar system is a tiny part of the Milky Way.
3	Exoplanet	Planet that orbits a star outside our solar system.

B THE SOLAR SYSTEM		
1	Stars	Bodies which give out light, and which may have a solar system of planets.
2	The Sun	The star at the centre of our solar system.
3	Orbit	Path taken by a satellite, planet or star moving around a larger body. The Earth completes one orbit of the Sun in one year.
4	Solar system	Planets rotating on tilted axes while orbiting the Sun, with moons orbiting planets. Planets and moons reflect sunlight. Also includes asteroids and comets.
5	The order of the planets (from the Sun)	Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.

D EXPLORING SPACE		
1	Telescope	Instrument used to explore space.
2	Light year	The distance light travels in a year (9 million, million kilometres}.