

Space (TRIPLE)

Threshold Concept

The Solar System is made up of many types of objects.

Keywords

Solar System - the collection of eight planets and their moons in orbit round the Sun, together with smaller bodies in the form of asteroids, meteoroids, and comets.

Orbit - the curved path of a celestial object or spacecraft round a star, planet, or moon

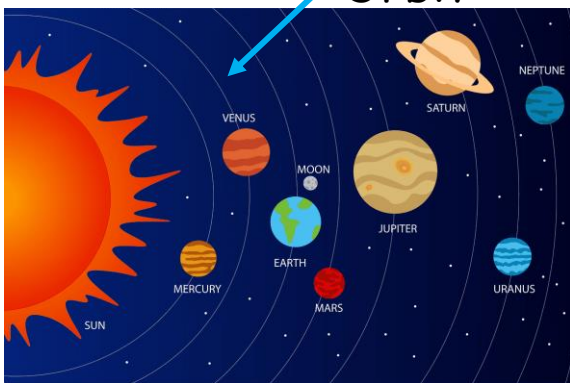
Sun - the star around which the 8 planets of the Solar System orbits.

Planet - a celestial body moving in an elliptical orbit round a star.

Moon - a celestial body moving in orbit around a planet. They are natural satellites.

Satellite - an object, either natural (e.g. The Moon), or artificial, that orbits a moon, planet or star. Artificial satellites are for information gathering.

Solar System



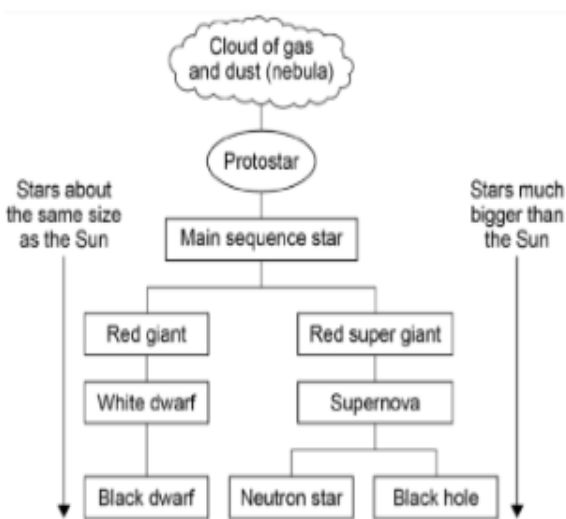
Link to information on the whole topic, consisting of slides, videos, and quizzes

Orbital Motion & Satellites

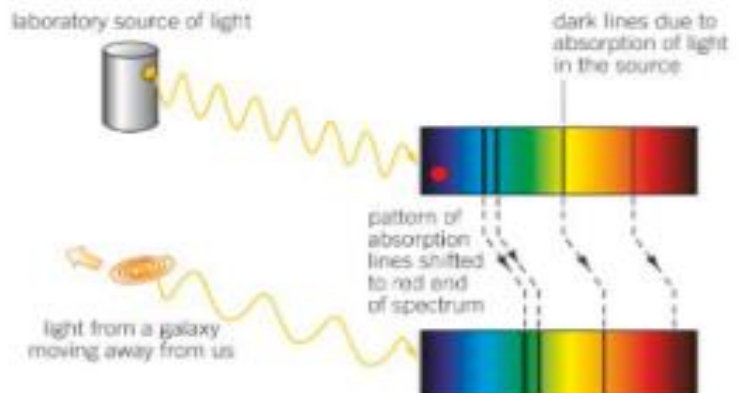
Planets orbit in near-circular orbits: they maintain a constant speed but are always changing direction. This means they have a constant speed but NOT a constant velocity

The Moon is a Natural Satellite. All other satellites of Earth are artificial, such as weather, military, ISS, GPS etc. Geostationary satellites follow the same point above Earth, so have an orbital period of 24 hours.

Life Cycle of Stars



Red-shift and Big Bang



Equations for this topic

Required Practical