Cosmology

Define a light year

Show how to calculate one light year in metres

What is the Big Bang Theory?

State evidence for the Big Bang Theory

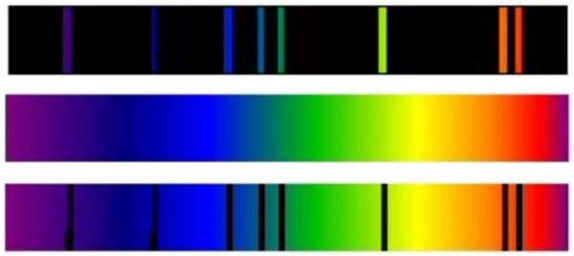
State the approximate age of the Universe

What can a line spectra tell us about a star?

What is a continuous spectrum? How can it be produced?

List the following in order of decreasing size: planet, dwarf planet, moon, sun, asteroid, solar system, star, exoplanet, galaxy, universe.

Name the following types of spectra



What is a star?

What is the Solar system?

What is a galaxy?

Space Exploration

Give some uses of satellites placed in orbit above the Earth

Explain how the force of gravity keeps a satellite in orbit

What is a geostationary satellite

How are the altitude and period of satellites related?

Define the period of a satellite

State the altitude and period of geostationary satellites

Describe some of the challenges on space travel

Describe risks associated with manned space exploration

Describe methods to travel large distances in space

At take off

During flight

In zero gravity

During re-entry