Define a light year

What is the Big Bang Theory?

State evidence for the Big Bang Theory

State the approximate

age of the Universe

Show how to calculate one light year in metres

What can a line spectra tell us about a star?

# Cosmology

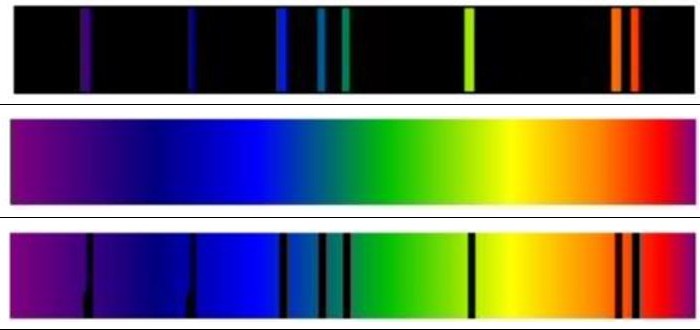
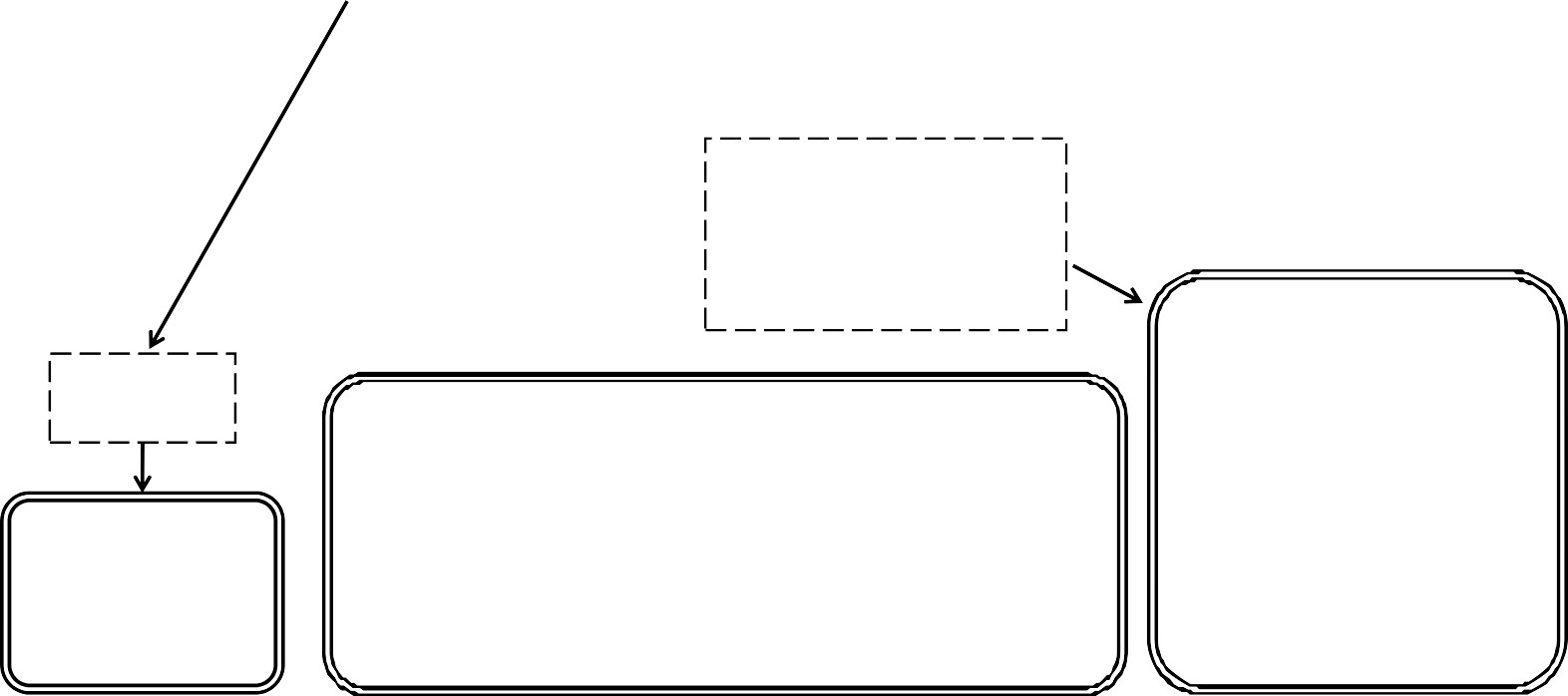
What is a continuous spectrum? How can it be produced?

What is the Solar system?

Name the following types of spectra

What is a star?

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



What is a galaxy?

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

# Space

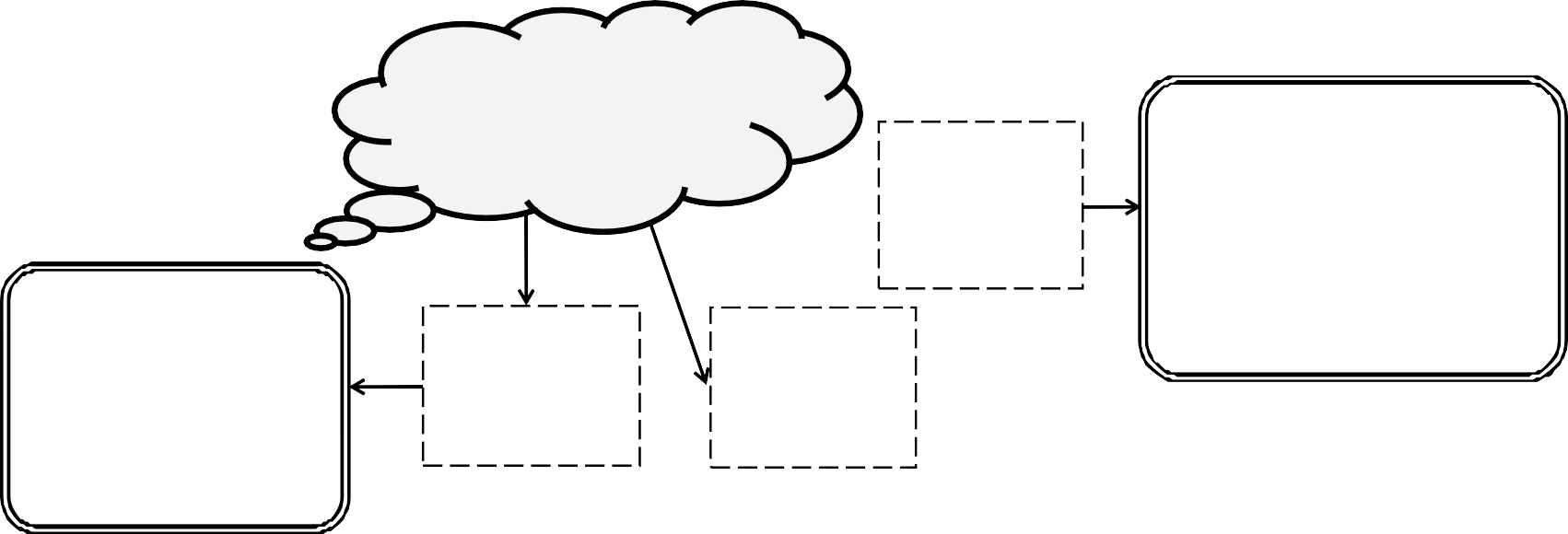
**Exploration**

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 In zero gravity

During flight

During re-entry