**Study Guide Outline for Earth & Space**

*This is a general guideline only.*

**Big Bang Theory** - what it is and major events such as first stars and galaxies

**Evidence for the Big Bang** - includes temp of background radiation, how do we see back in time for evidence

**Universe** - what is it, how was it formed

**Rotation** - how it works and how long for Earth

**Revolution** - how it works and how long for Earth

**Seasons on Earth** - Why we have seasons and position of earth during each season, solstice, equinox

**Moon** - why we have the phases, effect on tides, position of moon for tides, phases and eclipses relative to earth and sun

**Tides** - what causes tides

**Sun** - role in our solar system, process that releases energy to Earth

**Stars** - how are stars classified, source of light in universe

**Solar System** - planets in order as well as asteroid belt, characteristics of the inner planets and outer planets as groups not individual for each planet

**Orbits** - shape and how objects orbit in space

**Galaxies** - Name of our galaxy, identify and name the three types of galaxies

**Gravity** - role in orbits along with inertia, planet, universe, and galaxy formation, 2 factors that affect gravity, effect of gravity on weight

**Units of measurement** - within the solar system and outside of the solar system.

**Eclipses** - two types and positions of Earth, Sun, Moon