

## **Earth/Space Science Goal Requirements**

History Project – Design a project to show knowledge gained in some aspect of the history of earth/space science.

Career Project – Design a project to show knowledge gained about careers using the earth or space sciences.

Lab – Attend the Earth/Space Lab seminar.

Core Content – Complete approved independent projects or IClasses for the following topics:

Stars and the Universe – Content should include topics concerning types of stars and their life cycles, types of galaxies, including the location of Earth in our galaxy, and the origin of the Universe.

The Sun – Content should include the Sun as an energy source, its structure, and surface features.

The Solar System – Content should include a survey of the planets in our solar system, as well as other objects such as moons, asteroids, meteors, meteoroids, meteorites, and comets.

The Earth and Moon – Content should include work that shows the relationships of the Earth and Moon to lunar phases, eclipses, and tides.

The Hydrologic Cycle – Content should show an understanding of the hydrologic (water) cycle, cloud types, freshwater (rivers, lakes, and streams) and saltwater (oceans and currents) on Earth's surface, and groundwater

Weather and the Atmosphere- Content should show an understanding of fronts and air masses, effects of high and low pressure, precipitation types, severe weather, and reading weather map symbols.