

**2009-2010 Curriculum Map**  
**For**  
**Astronomy**

Textbook: *Journey to the Cosmic Frontier* by John D. Fix

Additional Resource: *Where We Are in Space and Time* from Project Star, Harvard-Smithsonian Center for Astrophysics

A. Earth and Moon (12 days)  
days)

1. Origins
2. Orbits and Eclipses
3. Lunar Exploration
4. Interaction between them

B. The Sun, Our Star (8 days)

1. Origin and Future
2. Composition
3. Solar Storms
4. Structure
5. Aurora Borealis

C. Solar System (14 days)

1. Origin
2. Moons and Rings
3. Planet Exploration
4. Orbits and Rotation

D. Star Evolution (10 days)

1. H - R Diagram
2. White Dwarf
3. Neutron Stars
4. Black Holes

E. The Milky Way Galaxy (10

1. Origin and Future
2. Constellations
3. Movement
4. Size

F. Telescopes (7 days)

1. Optical
2. Radio
3. Hubble Telescopes
4. Other Orbital Telescopes

G. Distances in Space (12 days)

1. Parallax
2. Variable Stars
3. Hubble Constant

H. The Universe (14 days)

1. Origin and Future
2. Dark Matter
3. Dark Energy
4. Life?

There will be several research projects that will be done in small groups and class presentations made.