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# Middle School Astronomy Syllabus

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## Astronomy

- I. Hierarchy of the Universe
  - a. Universe
  - b. Galaxies
- II. Stars
  - a. Classification
    - i. Temperature
    - ii. Brightness
    - iii. Color
    - iv. Size
  - b. Characteristics
    - i. Brightness
    - ii. Absolute magnitude
    - iii. Apparent magnitude
  - c. Life cycle of a star
  - d. Parallax
- III. Solar System
  - a. Sun
  - b. Planets
    - i. Characteristics
    - ii. Moons
    - iii. Rings
    - iv. Distance to the sun
  - c. meteors, asteroids, and comets
- IV. Orbits
  - a. Rotation of the sun
  - b. Heliocentric
  - c. Geocentric
  - d. Orbits
    - i. Speed
    - ii. Shape
- V. Patterns in Space
  - a. Motion of celestial objects in our solar system
  - b. Day
  - c. Year
  - d. Phases of moon
  - e. Tides
  - f. Eclipses

## *Middle School Astronomy Syllabus*

- VI. Technology
  - a. Space junk
  - b. Current methods
  - c. Space exploration and funding