

Space Exploration Concepts

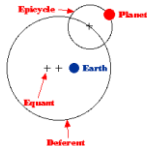
Views of Space

Ancients
↓
Structures
(Equinox – Solstice)

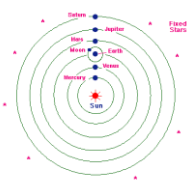
↓
Myths

↓
Models

Geocentric



Heliocentric



Technologies to View Space

Astronomer Tools
Telescopes Astrolabe



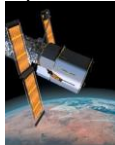
- Refracting
- Reflecting

Interferometry



(Radio Telescopes)

Hubble Space Telescope



Objects in Space

'Nebular Theory'
(Protoplanet Hypothesis)

<http://zebu.uoregon.edu/~js/ast121/lectures/lec24.html>

Stars	Planets	Comets	Other Phenomena
Our Sun	Inner Planets	Meteors	Galaxies
Star Life Cycle	Outer Planets	Space Junk	Nebula
Constellations Asterisms			Black Holes

Summary Cards

<http://www.edquest.ca/content/view/208/>



Celestial Sphere

Azimuth – Altitude – Zenith

Triangulation - Parallax

Natural – Artificial
Satellites

Communication Observation & Research Remote Sensing GPS

Historical Events

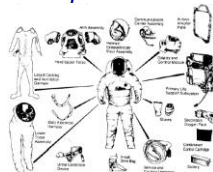
Rocket Science

Parts of a Rocket:

Fuel Structural & Mechanical Elements Payload
Ion Drives - Solar Sails

Technologies For Exploring Space

Space Suit



Spacecraft
Shuttles



Probes



Space Station



Living In Space - Life-Support Systems

Hazards

Environmental Psychological Physiological

Apollo 1 Challenger Columbia

Manned Missions
& Space Applications



Space Related Issues

Technology
Curiosity
Understanding

Political
Ethical
Environmental

Cost
Dangers
Resources

Space Achievements

Magnetic
Observatory

Satellites

Manned Missions

Extraterrestrial
Landings

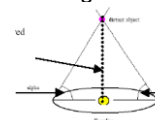
Living and Working
on the ISS

Probes/Optical
Devices to see
beyond our Solar
System

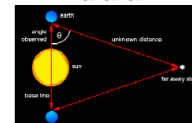
Future Missions

Technologies to Interpret What We See

Triangulation



Parallax



Doppler Effect



Spectroscopy

