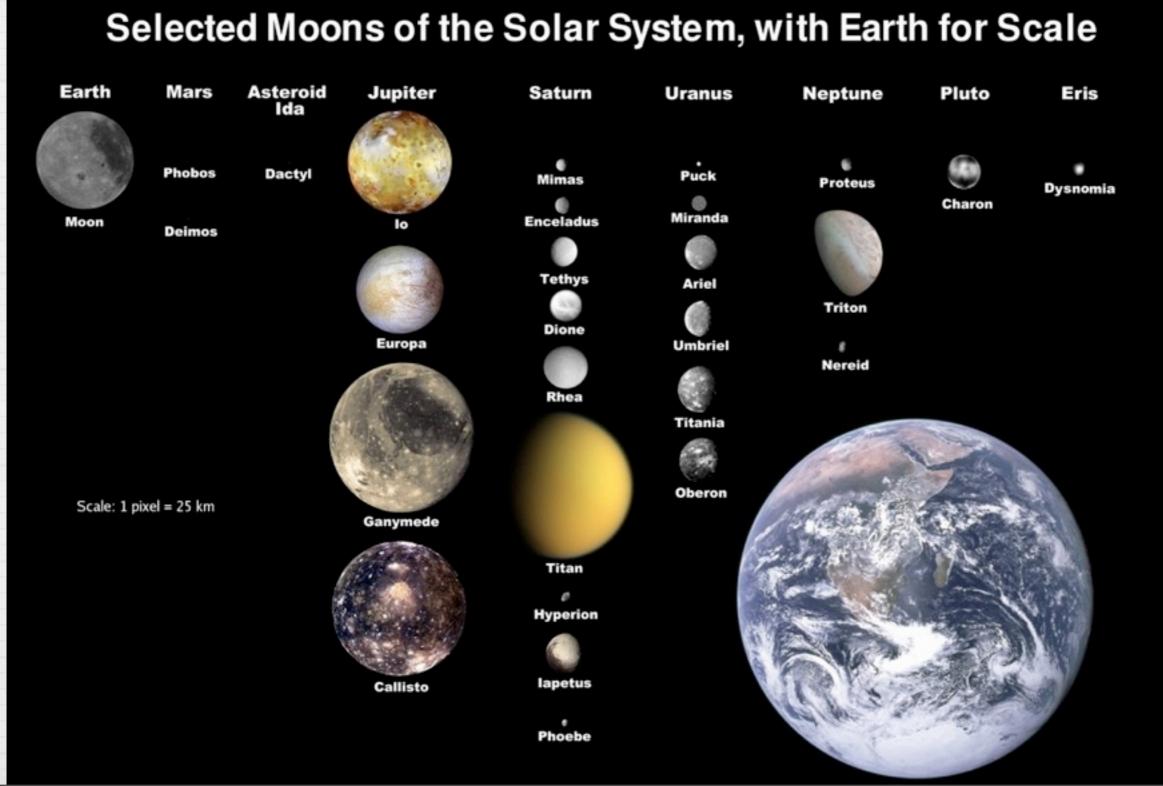


What is a Satellite?

- * Satellite: A celestial body orbiting another planet
 - * There are artificial and natural satellites

Natural Satellites



Earth's Satellites

* The Earth has 1 natural satellite - the Moon

* 1000s of artificial satellites

Earth's Satellites

- * Human occupied satellite:
 - * Space shuttle
 - * International Space Station (is 350 km from Earth and takes 90 min to orbit Earth)



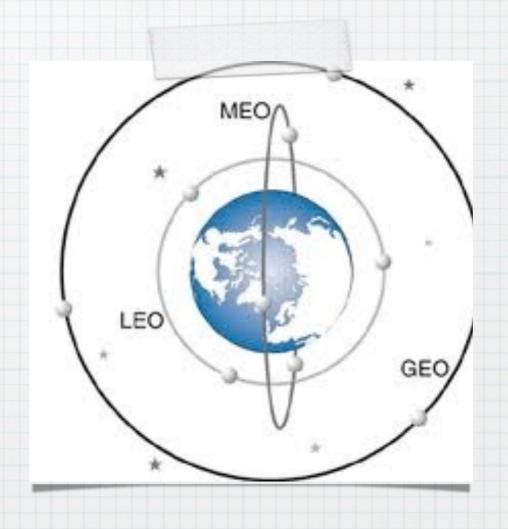


Staying in Orbit

- * The force of the Earth's gravity constantly pulls the satellite towards Earth
- * The forward motion of the satellite and the curvature of Earth prevents it from falling into the atmosphere

Types of Orbits

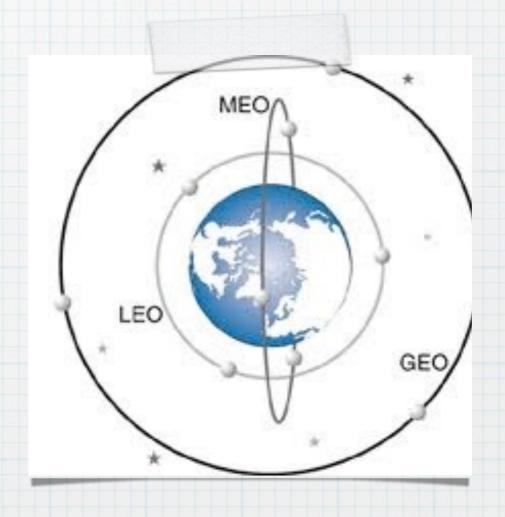
- * 1) Low Earth Orbit
 Satellites:
- * Altitudes up to 2000 km
- * Human occupied & Earth observation



Types of Orbits

- * 2) Medium Earth Orbit Satellites:
- * Altitudes up to 35 000 km
- * GPS satellites





Types of Orbits

- * 3) Geostationary
 Orbit Satellites:
- * Its path is directly over the equator with a period equal to the period of the Earth's rotation.



Appear motionless in the sky

