Celestial Objects in Space

Asteroids

•	Irregular shaped	objects				
•	many	around the	and this is call	led an		
Comet	S					
•	chunks of frozen _		_&	_ that orbit the sun		
•	tail is formed when the comet comes close to the					

Meteors & Meteorites

•	Ais a clump of rock o	r which is pulled towards Earth by				
•	In Earth's atmosphere it heats up, begins to glow and becomes a					
•	If the object is not k	efore it contacts the Earth's surface it is called a				

What's the difference?

	Asteroid	- Small; inactive - made of Orbits the
	Comet	- small; sometimes active object - made of
Meteoroid	Meteoroid	- small particle from an or or or or or bits the
Earth's Meteorite	Meteor	A meteoroid that up in the Earth's atmosphere - a star
Earth's Surface	Meteorite	A meteoroid that its passage through the Earth's and impacts the Earth's surface.

Moons/Satellites

- Large objects which revolve around a
- many planets have more than one moon
- Earth's moon has _____ atmosphere and has _____
- after the invention of the telescope _____ saw 4 moons of Jupiter
- Moons can come in a variety of _____ and with a variety of _____

Man-Made Satellites (Artificial Satellites or machines)

1000's of artificial satellites

- More than _____ countries have put more than _____ satellites into orbit
- Orbit outside the Earths atmosphere at altitudes of _____ km to _____ km

Human occupied satellites

- Space shuttle
- The international space station is 350 km from Earth and takes 90 minutes to orbit Earth

Staying in Orbit

- The of Earth's constantly pulls the satellite towards Earth
- The ______ of Earth prevents it from falling into the atmosphere

Types of Orbits

Low Earth Orbit Satellites:

- Altitudes up to km
- Human occupied & Earth observation (International Space Station)

Medium Earth Orbit Satellites:

- Altitudes up to _____ km
- GPS satellites —

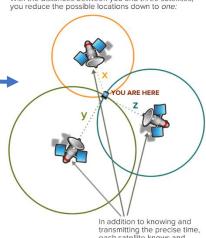
Geostationary Orbit Satellites:

- Its path is directly over the equator with a period equal to the period of the Earth's rotation.
- Appear motionless in the sky —
- Used to broadcast TV and radio



With the distances between you and three satellites, you reduce the possible locations down to one:

International Space Station



transmitting the precise time, each satellite knows and transmits its precise location.