

Other Objects in the Solar System

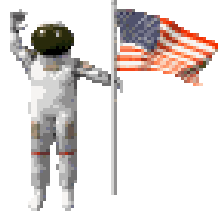
The Video on "Landing on a Comet". From this notice the information we get back to earth and how. Notice how many observations are made from the pictures.

Satellites are objects that revolve around planets (first 10 minutes)

The moon is the earth's natural satellite.



A Walk On The Moon



http://www.youtube.com/watch?v=Jg80HZsv_js&feature=related



<https://www.youtube.com/watch?v=jB32IAjqUFo>



The first human-made object to reach the surface of the Moon was the [Soviet Union's Luna 2](#) mission on 13 September 1959.

The [United States' Apollo 11](#) was the first manned mission to land on the Moon on 20 July 1969.

There have been [six manned landings](#) (between 1969 and 1972) and numerous unmanned landings.

Twelve men have walked on the Moon and 18 more orbited the Moon without landing.

Men who walked on the Moon:

Neil Armstrong Apollo 11 (1st man to step on the moon)

Buzz Aldrin Apollo 11 (2nd man to step on the moon)

Pete Conrad Apollo 12

Allen Bean Apollo 12

Alan Shepard Apollo 14

Edgar Mitchell Apollo 14

David Scott Apollo 15

James Irwin Apollo 15

John Young Apollo 16

Charles Duke Apollo 16

Eugene Cernan Apollo 17

Harrison Schmitt Apollo 17



Last person on the moon - Eugene Cernan in December 1972. with Apollo 17

<http://www.bbc.com/future/story/20140805-the-last-man-to-walk-on-the-moon>



article

Men Who Orbited the Moon Without Landing

1. Frank Borman - Apollo 8
2. Jim Lovell - Apollo 8, Apollo 13 (intended to land)
3. William Anders - Apollo 8
4. Tom Stafford - Apollo 10
5. John Young - Apollo 10 (later landed on Apollo 16)
6. Eugene Cernan - Apollo 10 (later landed on Apollo 17)
7. Michael Collins - Apollo 11
8. Dick Gordon - Apollo 12 (had been slated to land on Apollo 18)
9. Jack Swigert - Apollo 13
10. Fred Haise - Apollo 13 (intended to land; had been slated to land on Apollo 19)
11. Stuart Roosa - Apollo 14 (he also have been slated to land on the moon with Apollo 21 if missions beyond Apollo 20 been planned)
12. Al Worden - Apollo 15
13. Ken Mattingly - Apollo 16
14. Ronald Evans - Apollo 17
15. Stuart Roosa - Apollo 14 (he also have been slated to land on the moon with Apollo 21 if missions beyond Apollo 20 been planned)
16. Al Worden - Apollo 15
17. Ken Mattingly - Apollo 16
18. Ronald Evans - Apollo 17

Last man on moon documentary 1 hr 36 min

<https://www.bing.com/videos/search?q=last+person+on+the+moon&view=detail&mid=E544613A80D3E68F7961E544613A80D3E68F7961&FORM=VIRE>




The space shuttle was made to take astronauts and cargo to and from Earth orbit.

Jobs of the shuttle:

- Carry Astronauts into space to work on the Hubble Space Telescope and the International Space Station
- Launched satellites
- It's a science laboratory while orbiting Earth





WHEN_WE_LEFT_EARTH_The_NASA_Missions_A_Home_in_Space
(17:38-48:12)
<https://www.youtube.com/watch?v=dBt9OC8fiJK>

Space Stations

A **space station** is a spacecraft capable of supporting a crew which is designed to remain in space for an extended period of time, and to which other spacecraft can dock.

As of October 2011 two space stations are in orbit;
the International Space Station, and China's
Tiangong 1



Asteroids are made up of thousands of small rocky objects.

Asteroid belt is the ring of asteroids.
There is an asteroid belt found between Mars and Jupiter.

meteoroid is a lump of rock or metal that is trapped by the earth's gravity and pulled down through Earth's atmosphere.



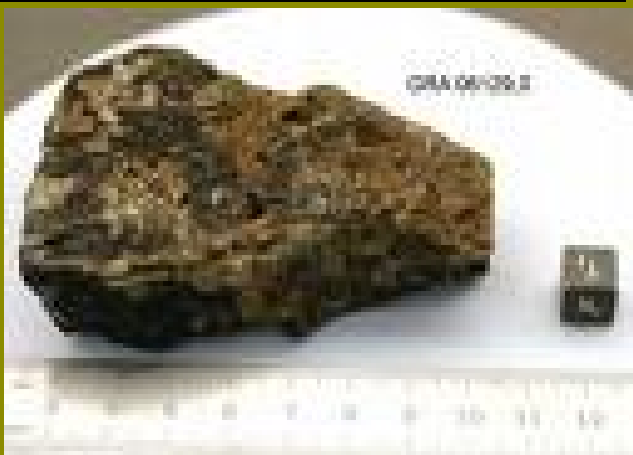
A bright streak of light across the sky is a meteor.



<http://ca.geocities.com/spacephysicsisus/>



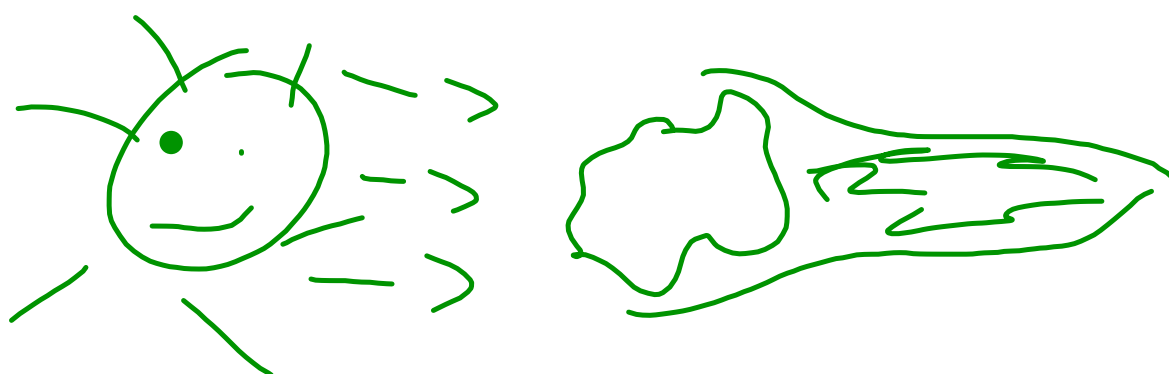
If the object hits the earth before vaporizing it is a meteorite.





Comet is a chunk of frozen matter that travels in a very long orbit around the sun.

A galaxy is a huge collection of gas, dust, and hundreds of planets billions of stars and moons.



Comets' tails are caused when the comets get close to the Sun. The outer layers of ice turn into gases that are pushed away from the Sun by the solar winds. These gases glow brightly.



Quiz

CLASS WORK

Wednesday

Page 433
Questions 2,3,4,5

Page 434
2, 4, 12, 20

How Have Astronomers Been Able to Study the Surface of Venus.docx