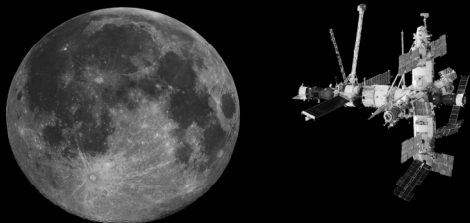


### OTHER OBJECTS IN THE SOLAR SYSTEM

- Satellites are objects that revolve around planets
- The moon is Earth's natural satellite



### A WALK ON THE MOON



- The first human-made object to reach the surface of the moon was the Soviet Union's Luna 2 mission on September 13, 1959.
- The United States' Apollo 11 was the first named mission to land on the moon on July 20, 1969.
- There have been 6 manned landings (between 1969 and 1972) and numerous unnamed landings.

### Moon continued...

- 12 men have walked on the moon
- 18 more have orbited the moon without landing



### EXPLORING OUR SOLAR SYSTEM

- A space probe is an unpiloted spacecraft sent to explore parts of the solar system beyond Earth. The probe collects information and transmits it back to Earth
- Space probes have visited every planet in the solar system, the sun, Pluto, and even to a few comets and asteroids.



SPACE SHUTTLE

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



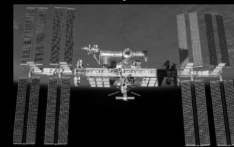
Jobs of the shuttle:

- Carry astronauts to work on the Hubble Space Telescope and the International Space Station
- Launch satellites
- It acts as a science laboratory while orbiting Earth

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



The Space Shuttle Challenger disaster occurred on January 28, 1986, when Space Shuttle Challenger broke apart 73 seconds into its flight, leading to the deaths of its seven crew members. The spacecraft disintegrated over the Atlantic Ocean, off the coast of central Florida



The Space Shuttle Columbia disaster occurred on February 1, 2003, when shortly before it was scheduled to conclude its 28<sup>th</sup> mission, the Space Shuttle Columbia disintegrated over Texas and Louisiana during re-entry into the Earth's atmosphere, resulting in the death of all seven crew members



Debris from Columbia were found in Texas, Arkansas and Louisiana



FULL DOCUMENTARY PBS Columbia Space Shuttle Disaster

<http://www.pbs.org/wgbh/nova/space/space-shuttle-disaster.html>



[https://www.youtube.com/watch?v=kAJHVII3\\_0](https://www.youtube.com/watch?v=kAJHVII3_0)

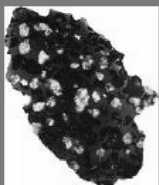
A black and white image of an asteroid with a long, bright, streaky tail, resembling a comet or meteor. The asteroid is in the foreground, and the Earth is visible in the background.

**Asteroids** are made up of thousands of small rocky objects.

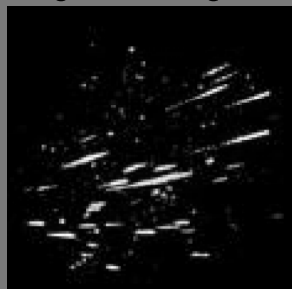
**Asteroid belt** is the ring of asteroids. There is an asteroid belt found between Mars and Jupiter.

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

If the meteoroid is large enough to hit the ground before totally vaporizing, it is called a **meteorite**.



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**.

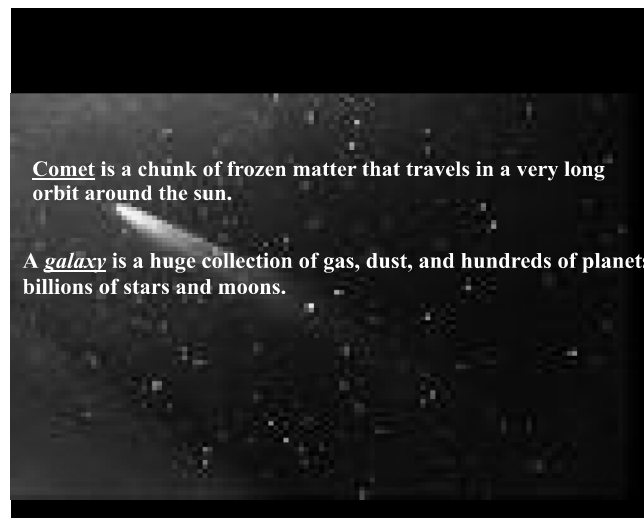
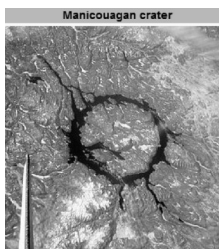


(HD) Russia Meteor Impact 2013 - Meteor Strike Fireball From Sp...

<http://www.youtube.com/watch?v=dpmXyJrs7IU>

## Manicouagan crater

The **Manicouagan Crater** is one of the oldest known impact craters and is the largest 'visible' impact crater on Earth, located in Québec.



**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.

Class Time Now - do asteroid, comet, meteor sheet

Homework- Planet table should be completed

- start studying

- work on rotation vs. revolution sheets



A cartoon character with a large head and small body stands above the text 'CLASS WORK' in a white box. Below this, the page numbers and questions are listed.

Page 433  
Questions 1,2,3,4,5

Page 434  
2, 4, 12, 20

## 5. Other Objects in the Solar System.notebook

March 19, 2018

Questions  
Page 433  
1, 2, 3, 4, 5

Page 434  
Questions 2, 4, 12, 20

2.a) Meteoroid is a lump or rock or metal in space pulled towards earth ,  
Meteorites are meteoroids that makes it to earth's surface .

b) Most meteors vaporize before they get to earth's surface.

3.



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.

4) Most planet's orbits are nearly circular, where comet's orbits are more oval or flattened.

$$\begin{array}{r} 1986 \\ + 76 \\ \hline 2062 \end{array}$$

Pg 434

2. a) Neptune b) Jupiter

c) Mercury d) earth

e) pluto f) saturn

g) mars h) Venus

i) uranus

4.a) 3rd, inner planet, terrestrial planet ,Rocky

Life - plants and animals

Oxygen

Water

Highest density

12. A person would weigh more on the four gas planets ( jupiter, saturn, uranus, neptune) because the surface gravity is greater than Earth's.

20. a) Advances in technology

b) yes.

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