

Other Objects in Solar System Moons

Examples:

Earth's Moon

Titan

Europa

Comets

Made of:

Ice

Dust

Example:

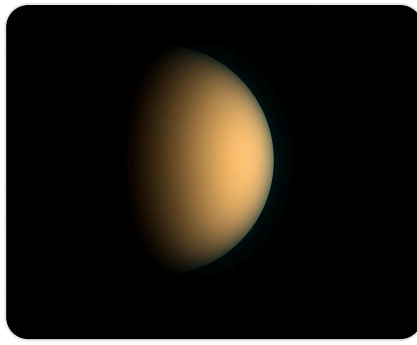
Halley's comet

Meteoroids

Small rock fragments give full info one by one

Here is the **full information about Moons, Comets, and Meteoroids** explained clearly one by one:

1. Moons (Natural Satellites)



Definition

Moons are **natural objects that orbit planets**. They are also called **natural satellites**.

How they form

Most moons form from:

- Leftover material after planet formation, or
- Objects captured by a planet's gravity, or
- Pieces broken off after collisions

Features

- Do not produce their own light
- Reflect sunlight
- Orbit planets
- Different sizes and shapes

Examples

Earth's Moon

- Only natural satellite of Earth
- Distance from Earth: about 384,400 km
- Controls ocean tides
- Diameter: about 3,474 km

Titan (Moon of Saturn)

- Largest moon of Saturn
- Has thick atmosphere
- Has lakes of methane and ethane
- Bigger than planet Mercury

Europa (Moon of Jupiter)

- Covered with ice

- Has underground ocean
- Scientists think life may exist there

Other examples

- Ganymede (largest moon in solar system)
 - Callisto
 - Io
-

2. Comets



Definition

Comets are **small icy objects that orbit the Sun.**

They are often called "**dirty snowballs.**"

Made of

- Ice
- Dust
- Frozen gases
- Rock particles

Parts of a comet

1. Nucleus – solid center
2. Coma – glowing cloud around nucleus
3. Tail – long glowing trail

Why do comets have tails?

When comets come close to the Sun:

- Heat melts ice
- Gas and dust escape

- Forms a glowing tail

Example: Halley's Comet

- Famous comet
- Visible from Earth every 76 years
- Last seen: 1986
- Next appearance: 2061

3. Meteoroids



Definition

Meteoroids are **small pieces of rock or metal moving in space.**

Size

- Smaller than asteroids
- Can be as small as dust

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What happens when meteoroids enter Earth's atmosphere?

Name	Meaning
Meteoroid	Rock in space
Meteor	Rock burning in atmosphere (shooting star)
Meteorite	Rock that reaches Earth surface

Sources

- Broken asteroids
- Comets
- Planet collisions

Summary Table

Object	Orbits	Made of	Example	
Moon	Planet	Rock, ice	Earth's Moon, Titan	
Comet	Sun	Ice, dust, gas	Halley's Comet	
Meteoroid	Sun	Rock, metal	Shooting stars	

If you want, I can also explain **Asteroids, Dwarf planets, and Kuiper belt objects** in the same easy way.

