

Other Objects in Solar System  
Moons

Examples:

Earth's Moon

Titan

Europa

Comets

Made of:

Ice

Dust

Example:

Halley's comet

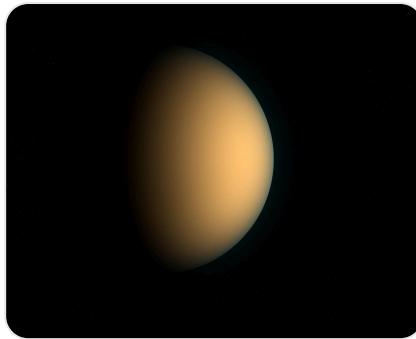
Meteoroids

Small rock fragments give full info one by one

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

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## 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)

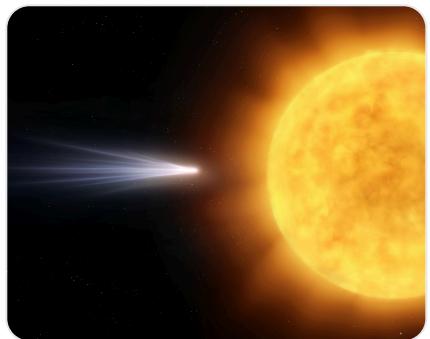
- Covered with ice

- Has underground ocean
- Scientists think life may exist there

## Other examples

- Ganymede (largest moon in solar system)
  - Callisto
  - Io
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## 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
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## 3. Meteoroids



### Definition

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

### Size

- Smaller than asteroids
- Can be as small as dust

— ChatGPT 5.2 ▾

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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.

