

Earth, Solar System & Planets



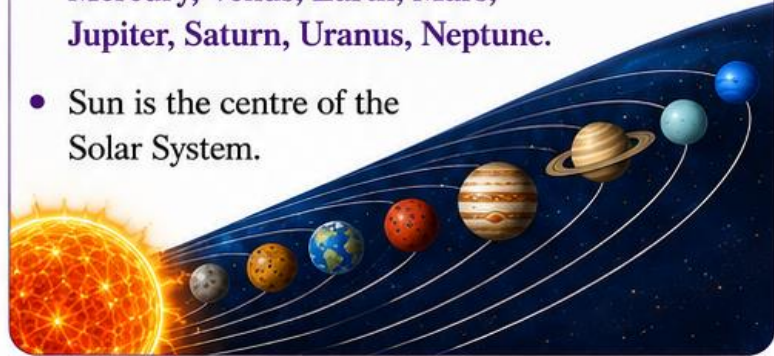
1 Earth

- Third planet from the Sun.
- Nearly spherical in shape.
- About **71%** of its surface is covered with **water**.
- Supports **life** due to suitable temperature, water and atmosphere.
- Has one natural satellite — **Moon**.



2 Solar System

- Consists of the Sun, 8 planets, satellites and other celestial bodies.
- Planets in order:
Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.
- Sun is the centre of the Solar System.



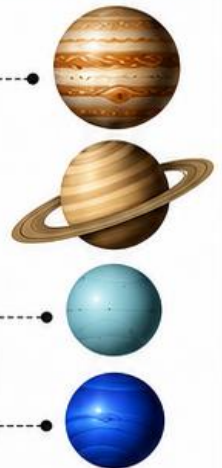
3 Sun

- A star, not a planet.
- Main source of **heat** and **light** for Earth.
- Solar energy **supports life** and many natural processes.



4 Planets

- **Inner planets:** Mercury, Venus, Earth, Mars — rocky planets.
- **Outer planets:** Jupiter, Saturn, Uranus, Neptune.
- ★ **Largest:** Jupiter
- ★ **Smallest:** Mercury
- ★ **Hottest:** Venus
- ★ **Red Planet:** Mars
- ★ **Ringed planet:** Saturn



PLANETS IN ORDER FROM THE SUN



Remember!

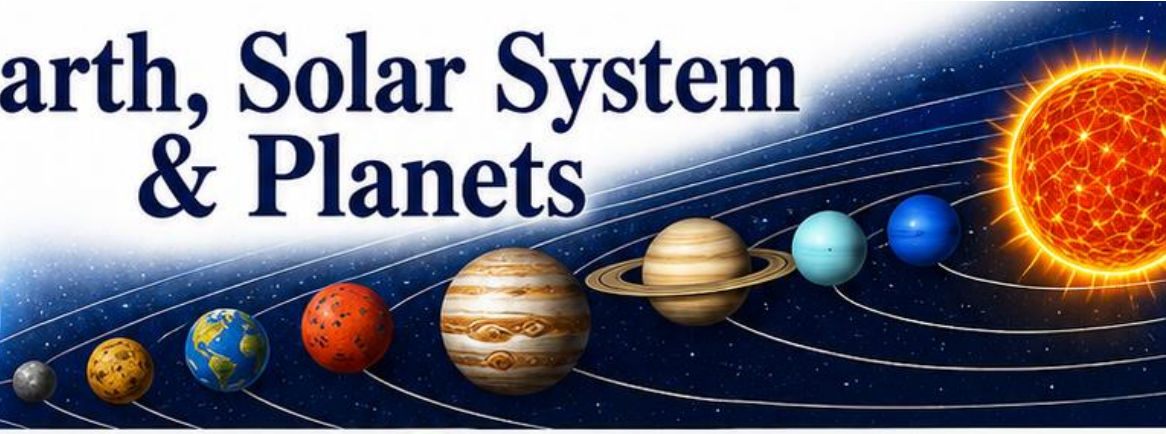
- The Sun gives us **light** and **heat**.
- Earth is the only known planet that **supports life**.

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Take care of Earth,
our only home.



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6 Moon

- Earth's natural satellite.
- Has no light of its own; reflects sunlight.
- Shows different phases during its revolution around Earth.



Phases of Moon:



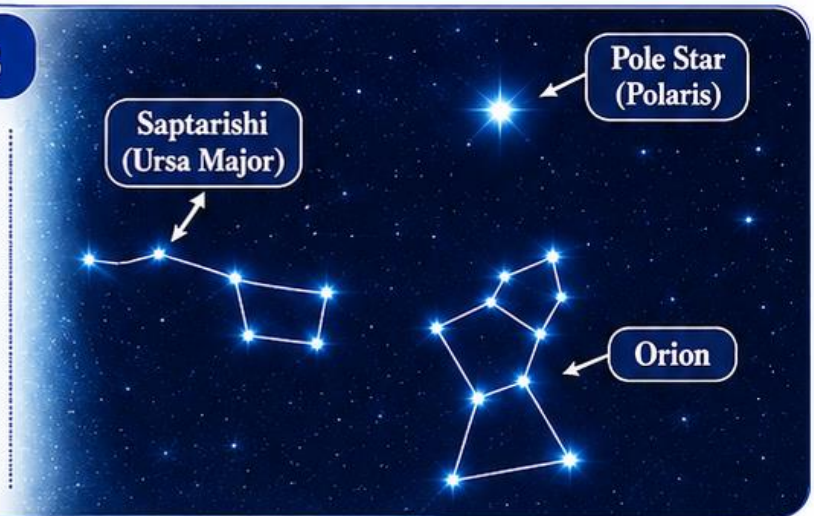
7 Eclipses

- **Solar Eclipse:** Moon comes between Sun and Earth.
- **Lunar Eclipse:** Earth comes between Sun and Moon.



8 Stars & Constellations

- Stars produce their own light and heat.
- **Sun** is the nearest star to Earth.
- **Pole Star** helps identify north direction.
- **Saptarishi** and **Orion** are important constellations.



9 Other Celestial Bodies

- **Asteroids:** Rocky bodies orbiting the Sun.
- **Comets:** Icy bodies that develop a tail near the Sun.
- **Meteoroid:** Small rocky/metallic body in space.
- **Meteor:** Bright streak when a meteoroid enters the atmosphere.
- **Meteorite:** Meteoroid that reaches Earth's surface.
- **Pluto:** Dwarf planet.



Asteroid



Comet



Meteoroid



Meteor



Meteorite



Pluto