



Earth-Moon system as seen from spacecraft. Colours in its image to the outer planets.

## PLANETARY SATELLITES

Human-made object placed in orbit around Earth or another celestial body.

Body of natural origin in orbit around a planet.

1. Atmosphere - none
2. Core - probably molten rock or iron
3. Moon phases - Moon goes through a series of phases every 29.5 days (synodic period).
4. Rotation: Moon's rotational period matches its orbital period. This results in the Moon always having the same side facing Earth.
5. Tides: Caused by gravitational effects of the Moon and Sun. The Moon's closer proximity causes it to have about twice the gravitational effect of the Sun.
  - a. Spring tides: High tides that occur because the Moon and Sun are positioned in line with Earth so their gravitational fields reinforce each other.
  - b. Neap tides: Low tides that occur because the Moon and Sun are positioned at right angles to each other.
6. Moon data:
  - a. Mass:  $7.36 \times 10^{22}$  kg
  - b. Average density:  $3.34 \text{ g/cm}^3$
  - c. Equatorial diameter: 3,476 km
  - d. Equatorial surface gravity:  $1.67 \text{ m/s}^2$
  - e. Equatorial escape speed:  $2.4 \text{ km/s}$
  - f. Average surface temperature:  $-274 \text{ to } -209^\circ\text{C}$
  - g. Average distance from Earth: 384,400 km
  - h. Orbital period (sidereal month): 27.32 days
  - i. Orbital period (synodic month): 29.53 days
  - j. Geometric albedo: 0.12
  - k. Apparent magnitude:  $-12.7$  (full phase)

## ASTEROIDS, METEORIDS, COMETS, AND INTERPLANETARY MEDIUM

asteroids, meteoroids, and comets are debris left over from the birth of the solar system.

1. Asteroids: solid rocky bodies also called planetoids and are remnants of the solar nebula.
2. Asteroid belt: Remnants of asteroids that orbit the Sun between Mars and Jupiter. Their orbital periods range from three to six years.
3. Meteoroids: any small celestial object moving through space having the potential of becoming a meteor or meteorite.

4. Meteor: a meteoroid that has entered the Earth's atmosphere. Due to friction with the Earth's atmosphere, the meteor heats up and glows.
5. Meteorite: a meteorite is a meteoroid that has reached the surface of the Earth.
  - a. Iron meteorite
  - b. Stone (chondritic) meteorite
  - c. Stony (chondritic) stony concrete meteorite
6. Comets are icy orbital body existing in the solar system.
  - a. Head: consists of the nucleus and coma
    - 1) nucleus: mixture of dust and frozen gas that consists primarily of frozen water, carbon dioxide, ammonia, and methane
    - 2) coma: diffuse envelope of gas that surrounds the nucleus due to evaporation of the nucleus from the sun.
  - b. Tail: long streams of gas and dust from the head.
  - c. Periodic comets: comets with a closed elliptical orbit within the solar system. (e.g. Halley's comet).
  - d. Non-periodic: comets passing through the solar system with open orbits.
7. Interplanetary medium: This is the dust, electrically charged particles and neutral gas found between the planets.



Fragments of comet Shoemaker/Levy 9 impacting Jupiter's surface, June 1994

## ECLIPSES

when light from a celestial body is partially or completely blocked by the presence of another.

1. Solar eclipse: when the Moon lies between the Sun and the Earth, thereby blocking the Sun's light.
2. Total solar eclipse: when the Moon's disk completely covers the Sun's.
3. Partial solar eclipse: When the Moon's disk partially covers the Sun's.
4. Annular eclipse: occurs when the Moon is further from Earth. The Moon's diameter appears smaller than the Sun's and fails to completely cover it. This results in a ring of sunlight surrounding the Moon.
5. Lunar eclipse: occurs when the Moon enters the Earth's shadow.
6. Total lunar eclipse: when the Moon lies entirely within the Earth's umbra (dark central part of its shadow).
7. Partial lunar eclipse: when the Moon lies partially in the umbra and penumbra (the lighter outer part of the Earth's shadow).

8. Penumbral eclipse: when the Moon lies entirely within the Earth's penumbra. The Moon's disk is only slightly darkened.



Orion Nebula: A birthplace of stars, this nebula is a glowing mass of ionized hydrogen gas. High-speed jets of hot gas ejected from newly ignited stars rip through the nebula, spawning new stars.

## STARS

a enormous ball of hot ionized gas (plasma). Stars generate energy through thermonuclear fusion, building heavier elements from lighter ones (nucleosynthesis).

1. Distant stars are born from huge interstellar clouds of dust called nebulae.
2. On the equator, stars rise above the horizon earlier each successive night and appear to revolve because of atmospheric turbulence.

a pair of stars in orbit around each other and bound together by their mutual gravitational attraction.

1. Optical double: a pair of stars that lie in the same line of sight as seen from Earth. These stars are not physically associated with each other and are therefore not a true binary.
2. Visual binary: a visual binary is a star in which the two components can be resolved as separate images with an appropriate star telescope.
3. Spectroscopic binary: a spectroscopic binary is a pair of stars that are separated by observing lines of two different spectral types.
4. Eclipsing binary: a star system in which the orbital motion of the two stars causes them to pass in front of each other and reduce their light, as seen from Earth.
5. Apparent binary: a star in which the presence of an unseen companion is revealed by specific irregularities in the position of the brighter star.
6. Spectroscopic binary: a spectroscopic binary is a system in which the two stars are so close together that their presence must be revealed by spectroscopic analysis.

a group of three or more stars orbiting around each other and bound together by their mutual gravitational attraction.

- a star whose light output varies regularly or irregularly.
1. Eruptive and variable variables:
    - a. Novae: a binary star system that suddenly increases its brightness by as much as 10,000 times and then slowly decreases. This is caused by a white dwarf absorbing material

# Astronomy Ii Exam Notes

**G Orfield**



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