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Chapter - 01 Geography The Earth in the Solar System

- If we look at sky in the night it seems to be filled with tiny shining objects-some are bright, others are dim. They seem to be twinkling.
- Once in a month, we see full moon night of a fortnight later, you cannot see it at all. It is a new moon night or 'Amavasya'.
- The sun, moon, stars and planets and all those objects shining in the night are called celestial bodies.
- Some celestial bodies are very big and hot. They are made of gas, have their own heat and light. They emit in large amounts. These celestial bodies are called stars. The sun is a star.
- While watching the night sky, we notice various patterns formed by different groups of stars. These are called constellations. Ursa Major is one such constellation.
- In ancient times, people used to determine directions during the night with the help of stars.

 The North star indicates the north direction. It is also called pole star.
- Some celestial bodies do not have their own heat and light. They are lit by the light of the stars. Such bodies are called planets.

• The Solar System:

The sun, eight planets, satellites and some other celestial bodies known as asteroids and meteoroids form the solar system.

• The Sun:

- (i) The sun is the centre of solar system.
- (ii) It is huge and made up of extremely hot gases.
- (iii) The sun is the ultimate souce of heat and light for the solar system.

Planets:

- (i) The word 'planet' comes from the Greek word 'Planetai' which means wanderers.
- (ii) There are eight planets in our solar system-Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.
- (iii) All the eight planets of the solar system move around the sun in fixed paths. These paths are elongated. They are called orbits.
- (iv) Till August 2006, Pluto was also a planet. But now it is called only a celestial body.

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• The Earth:

- (i) The earth is the third nearest planet to the sun and is our home.
- (ii) It is slightly flattered at the poles. That is why, its shape is called Geoid.
- (iii) Conditions favourable to support life are probably found only on the earth.
- (iv) From the outer space, the earth appears blue because its 2/3rds surface is covered by water. It is, therefore, called a blue planet.

The Moon:

- (i) Our earth has only one natural satellite that is the moon.
- (ii) It appears so big because it is nearer to our planet than other celestial bodies.
- (iii) The moon moves around the earth in about 27 days and 8 hours.
- (iv) The moon does not have conditions favourable for life.

Asteroids:

- (i) There are numerous tiny bodies which also move around the sun. These bodies are called asteroids.
- (ii) They are found between the orbits of Mars and Jupiter.

Meteoroids:

- (i) The small pieces of rocks which move around the sun are called meteoroids.
- (ii) A galaxy is a huge system of billions of stars, and clouds of dust and gases. These are millions of such galaxies that make the universe.