

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. These shapes are primarily located on the left and right sides of the frame, creating a modern, layered effect. The central area is a plain white space where the text is placed.

Mohit sehrawat

Stars and Solar system

THE MOON

- ▶ The day on which the whole disk of the moon is visible is known as the full moon day. Thereafter, every night the size of the bright part of the moon appears to become thinner and thinner. On the fifteenth day the moon is not visible. This day is known as the new moon day. The next day, only a small portion of the moon appears in the sky. This is known as the crescent moon.
- ▶ The various shapes of the bright part of the moon as seen during a month are called phases of the moon.

THE MOON SURFACE

- ▶ The moon is a fascinating object for poets and story-tellers. But when astronauts landed on the moon, they found that moon's surface is dusty and barren. There are many craters of different sizes. It also has a large number of steep and high mountains. Some of these are as high as the highest mountains of the earth.

THE STARS

- ▶ What other objects do you see in the night sky? There is a large number of stars in the sky. Observe carefully on a dark night and a place away from a big city. The sun is also a star. Why does it appear so large compared to the other stars?
- ▶ Which appears bigger, a football placed near you, or a football placed at a distance of 100 meters? The stars are millions of times farther away than the sun. Therefore, the stars appear to be like a point.

CONSTELLATIONS

- ▶ Look at the sky for some time .can you see some stars forming groups with shapes like.
- ▶ The stars forming the group that has a recognisable shape is called **constellation**. You can easily identify some constellation in the night sky.
- ▶ One of the most famous constellation which you can see during summertime in the early part of the night *Ursa Major*.
- ▶ **ORION** is another well known constellation that can be seen during winter in the late evening.

THE SOLAR SYSTEM

- ▶ The sun and the celestial bodies which revolve around it form the solar system. It consists of a large number of bodies such as planets, comets, asteroids and meteors. The gravitational attraction between the sun and these objects keeps them revolving around it.
- ▶ The earth, as you know, also revolves around the sun; it is a member of the solar system. It is a planet. There are seven other planets that revolve around the sun. The eight planets, in order of their distance from the sun, are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

ASTEROIDS

- ▶ There is a large gap in between the orbit of mars and Jupiter. This gap is occupied by a large number of small objects that revolve around the sun. These are called asteroids. Asteroids can only be seen through large telescopes.

COMETS

- ▶ Comet are also member of our solar system. They revolve around the sun in highly elliptical orbits. A Comet appear generally as a bright head with a long tail . The length of the tail grows in size as it approaches the sun . The tail of a comet is always directed away from the sun .
- ▶ Many comets are known to appear periodically . One such comet is Halley comet , which appear after nearly every 76 years . It was last seen in 1986 .

Artificial Satellites

- ▶ You must have heard that there are a number of artificial satellites which are orbiting to Earth. You might wonder how artificial satellites are different from natural satellites. Artificial satellites are man made. They are launched from the earth. India has built and launched several artificial satellite.