



LITTERA PUBLIC SCHOOL

CLASS V

CHAPTER 10

SCIENCE

THE MOON

MOON

- Moon is made up of rocks and has no air on it.
- Moon is the natural satellite of the Earth.
- Its distance from the Earth is 3,84,400 km.
- Moon does not have any light of its own. The moonlight we see is only reflected sunlight.



Atmospheric conditions on the moon

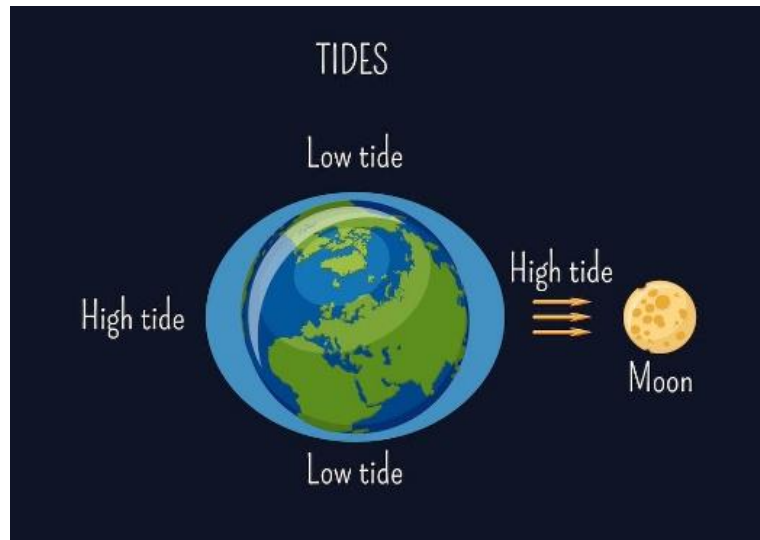
- It does not have any water, and its surface is covered with a layer of dust.
- It has mountains and have huge round pits called craters.
- There is no atmosphere, no wind, no clouds and no rain.
- It is extremely hot during the day and freezing cold at night.



Tides

Tides are the rise and fall of sea levels caused by the combined effects of the gravitational forces exerted by the Moon and are also caused by the Earth and Moon orbiting one another.

- The water in the sea facing the moon is pulled upwards and the sea level rises, this is called **high tide**.
- Another high tide occurs on the other side of the earth due to gravitational pull of the sun.
- Between two high tides water level falls, this is called **low tide**.



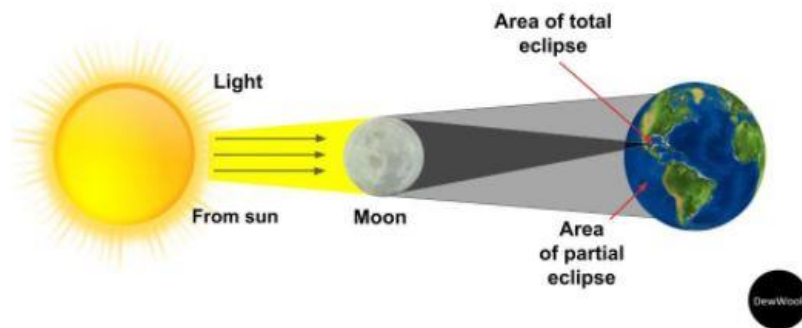
Movements of the moon

- The moon rotates on its axis while orbiting the earth.
- It rotates and revolves at the same speed. It does one rotation on its axis for each revolution.
- It takes 29.5 days to complete one revolution.

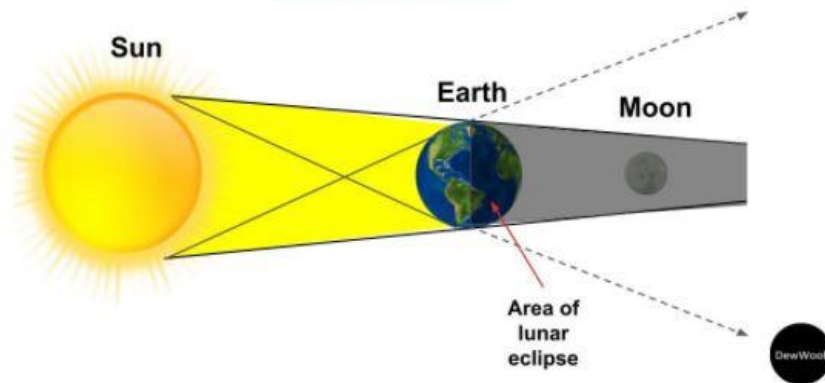
Eclipses

- The earth and the moon cast shadows in space when sunlight falls on them. These shadows are called eclipses.
- It is caused when the moon and the earth are in direct line with the sun.
- Two types of eclipses are: solar eclipse and lunar eclipse.

Solar Eclipse



Lunar Eclipse



Solar eclipse

- When the moon comes between the earth and the sun in a straight line, the moon casts its shadow on the earth.
- If the sun cannot be seen at all, it is called **total solar eclipse**.
- If only a part of sun is seen, it is called **partial solar eclipse**.



- Solar eclipse occurs only on new moon day

Lunar eclipse

- If the sun, the earth and the moon are in same straight line, the earth casts its shadow on the moon, it is called lunar eclipse.
- If the shadow of the earth covers the moon completely, it is called total lunar eclipse.
- If the shadow of the earth covers the moon partially, it is called partial lunar eclipse.

Artificial satellite

Artificial Satellites are man made objects that orbits the earth or any other planet. They are launched into space with the help of Rockets.

- Sputnik 1 was the world's first satellite launched on 4th October 1957 by Russia.

Types of satellites

1. Weather satellites
2. Remote sensing or photography satellites
3. Scientific research satellites
4. Communication satellites