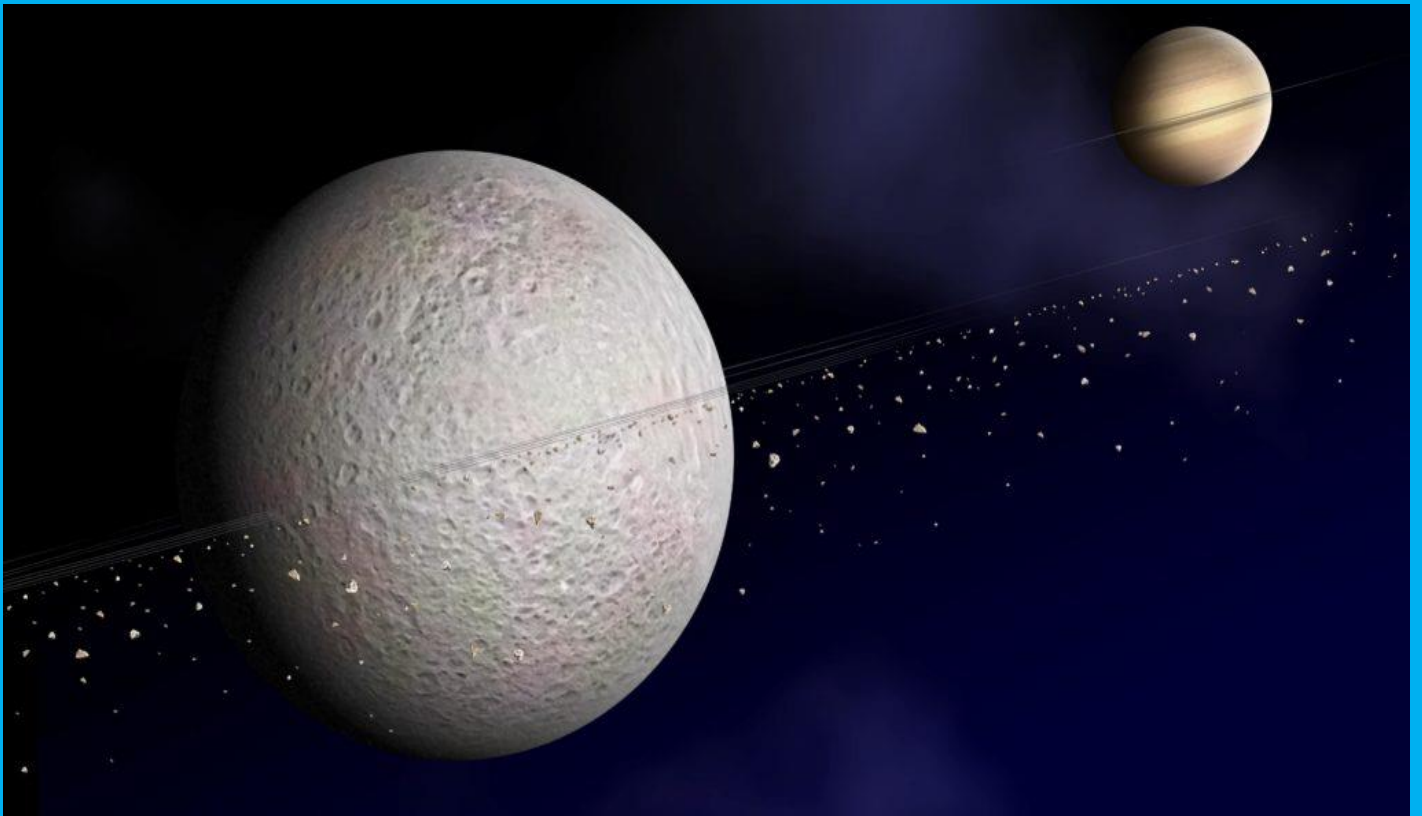


CH- 5

Our Earth's Natural Satellite

Science: Class V



I. New Words:

- satellite
- heavenly
- reflects
- craters
- meteorites
- radiations
- astronauts
- opaque
- eclipse
- weather
- artificial
- gravity
- intensity
- communication
- tides

II. Define:

1. **Solar Eclipse:** When the moon comes between the Sun and the Earth blocking the sun rays and casting a shadow on the Earth is called solar eclipse.

2. **Lunar Eclipse:** When the Earth is between the Sun and the moon and its shadow completely covers the moon is called Lunar Eclipse.



III. Give reason why?

1. We cannot hear anything on the moon.

Ans: We require air as the medium to hear anything, but because of the absence of air, we cannot hear anything on the moon.

2. Different phases of the moon exist.

Ans: We see the different phases of the moon as we can see the side of the moon which is illuminated by the sun. When moon orbits around the Earth different sizes of the moon appears according to the light coming from the Sun.

IV. Answer these:

1. Why does the moon shines?

Ans: Moon does not have its own heat and light but shines because it reflects the light of the sun.

2. How does the atmosphere surrounding the Earth protect us?

Ans: The atmosphere surrounding the Earth protect us in the following ways:

- a) It protects us from heat and harmful radiations coming out from the sun.
- b) It protects us from meteors.

3. What are artificial satellites? How are these satellites useful to mankind?

Ans: Artificial satellites are the man-made objects that surrounds the Earth. They are useful to us in the following ways:

- a) Artificial satellites are useful to us for scientific research and to study the universe.
- b) It is used for weather forecasting broadcasting TV programs.
- c) It is also used for navigation purposes.



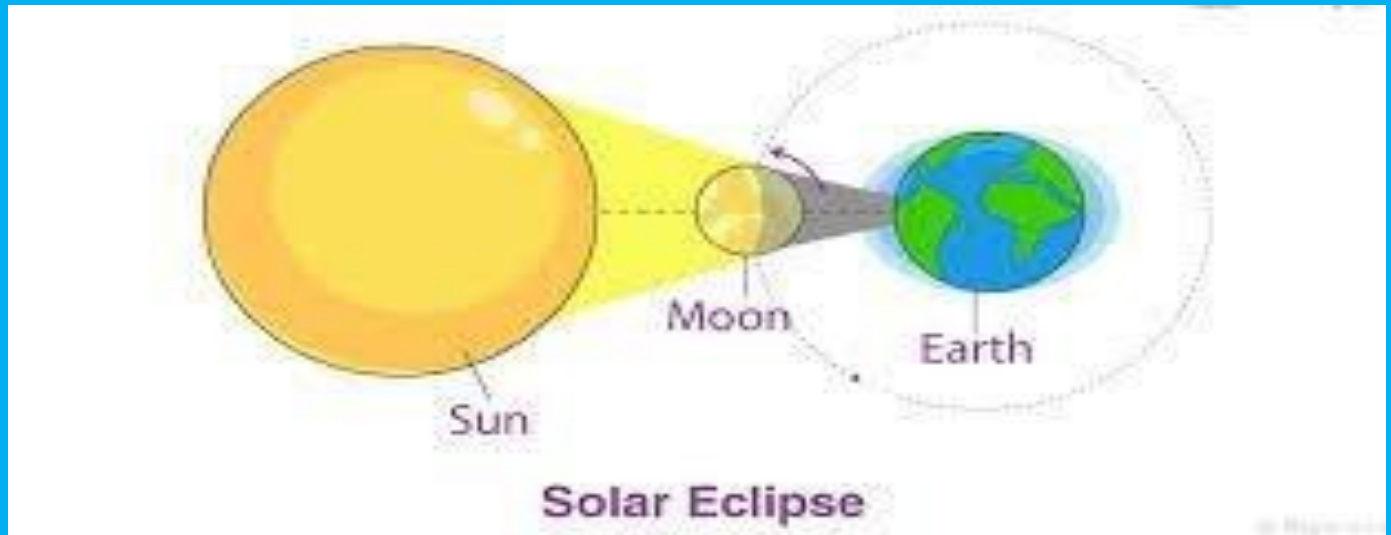
4. Differentiate between

High Tide	Low Tide
<ol style="list-style-type: none">1. High tide occurs when the sun, moon and earth are aligned.2. It is also called spring tide.	<ol style="list-style-type: none">1. Low tide occurs when the sun moon and earth form 90-degree angle.2. It is also called neap tide.

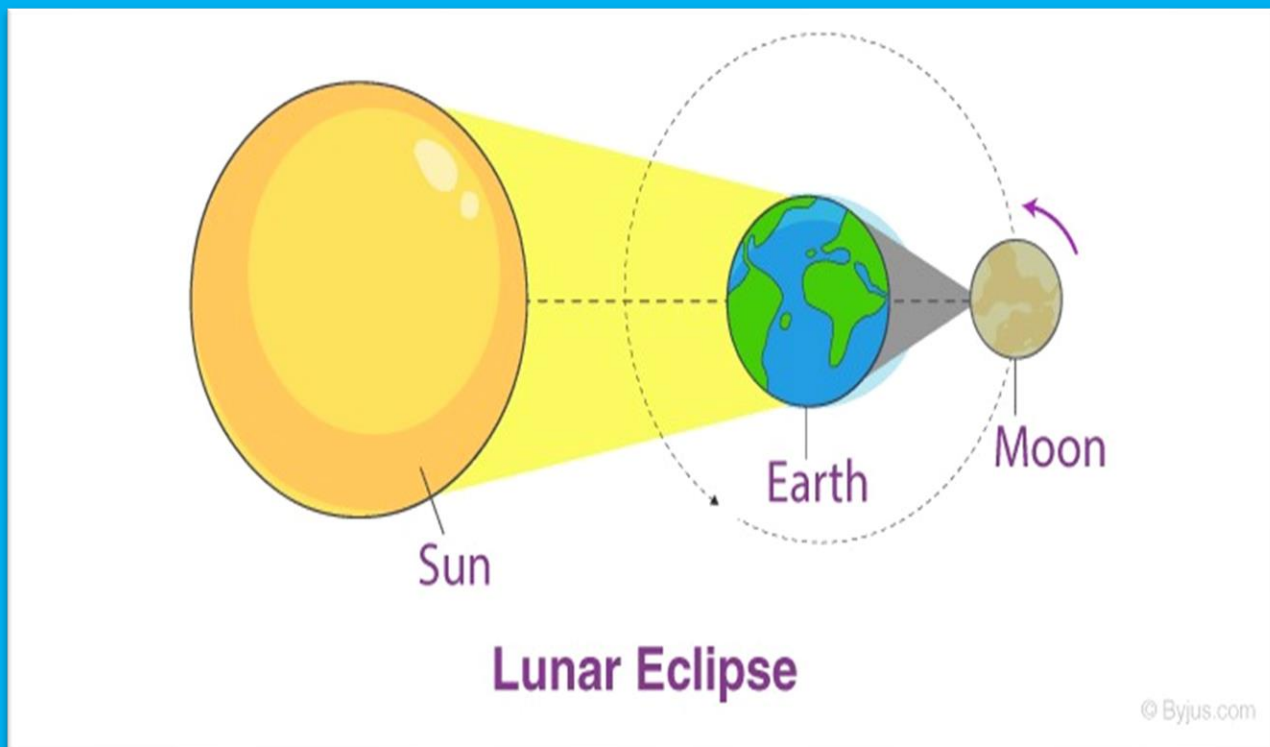


5. Draw and label:


a) **Solar Eclipse**



b) **Lunar Eclipse**



BOOK WORK




Our Earth's Natural Satellite

Get started!

Write T for True or F for False.

1. There are eight planets in the solar system. **T**
2. A planet revolves around a satellite. **F**
3. The moon is an artificial satellite of the earth. **F**
4. There is no life on the moon. **T**

CHECKPOINT



ENRICHMENT ACTIVITY

Circle the correct answers.

1. The (satellite / meteor / sun) is an object that revolves around a planet.
2. The craters on the surface of the moon are formed by pieces of rocks called (meteorites / planets / ball of fires).
3. (Neil Armstrong / Edwin Aldrin / Michael Collins) did not step on the moon's surface.

Read and ANSWER

A. Tick (✓) the correct answers.

1. The closest neighbour of the earth in space is
a. the sun. ✓ b. Jupiter. _____ c. the moon. ✓ d. Mars. _____
2. Moon is a lonely and silent place because it does not have
a. flowers. _____ b. air. ✓ c. music. _____ d. fire. _____
3. An object through which light cannot pass is called
a. solid. _____ b. dark. _____ c. opaque. ✓ d. shadow. _____
4. The first artificial satellite launched by India in 1975 was
a. Sputnik I. _____ b. Aryabhata. ✓ c. Charaka. _____ d. INSAT. _____
5. A person who goes into space is called an
a. astronomer. _____ b. astronaut. ✓ c. astrologer. _____ d. agriculturist. _____

B. Fill in the blanks with the correct words from the brackets.

1. The surface of the moon is very rough (smooth/rough).
2. The astronaut who stepped on the moon with Neil Armstrong was Edwin Aldrin (Edwin Aldrin/Michael Collins).
3. When the moon is completely in the shadow of the earth, it is a total lunar (lunar/solar) eclipse.
4. Tides are caused in the oceans due to the gravitational (shadow/gravitational pull) of the moon.
5. The satellites that send messages from one country to another are called communication (weather/communication) satellites.

C. Write short answers.

1. Who was the first man to go into space? Yuri Gagarin
2. Who was the first woman to go into space? Valentina Tereshkova
3. Name the first man-made satellite. Sputnik I
4. Who was the first Indian astronaut? Rakesh Sharma
5. Name the first person who landed on the moon. Neil Armstrong

Worksheet

WORKSHEET 1

OUR EARTH'S NATURAL SATELLITE

A. Fill in the blanks.

1. A Satellite is an object which revolves around a planet.
2. The moon is about 3,84,400 km away from the earth.
3. No life can exist on the moon as there is no air or water on the moon.
4. Eclipses are nothing but the shadows of the earth and the moon.

B. Write T for True or F for False.

1. When the moon is hidden in the shadow of the earth, it is solar eclipse. F
2. The moon reflects the light of the earth that falls on it. F
3. There is no atmosphere surrounding the earth's surface. F
4. The American spacecraft Sputnik 1 was the first spacecraft to land on the moon. F

WORKSHEET 2

OUR EARTH'S NATURAL SATELLITE

A. Fill in the blanks.

1. There are big, round hollows called craters on the surface of the moon.
2. The different shapes of the moon, as visible from the earth, are called its phases.
3. A rocket is used to launch an artificial satellite into space.
4. When light falls on an opaque object, its shadow is formed.

B. Write T for True or F for False.

1. A lunar eclipse occurs only at night. T
2. One should not look at a solar eclipse with naked eyes. T
3. The moon's pull on the water of the seas and oceans is stronger than that of the sun. T
4. Communication satellites send messages from one country to another. T