

Tender Heart High School, Chandigarh

Class-V

Subject - Science

Chapter - 10

Light and Shadow

Teachers: Mrs Nimrita

Date: 11/11/24

Good Morning Children! This lesson is for Class-V, Subject - General Science, Chapter - 10, Light and Shadow of your textbook, New Trends in Science, Evergreen Publications. It is being submitted to you on 11 November 2024. In the last lecture, we have discussed the features of light. Today, we are going to discuss about 'Formation of shadow' and Solar and lunar eclipse.

→ Formation of shadow:-

When an opaque object is placed in the path of light, the path of light is obstructed and a dark patch is formed on the ground. This dark patch is called the shadow of the opaque object.

→ Conditions for the formation of shadow:-

For formation of shadow, we must have:-

- a source of light.
- an opaque object.
- an opaque screen for the formation of shadow.

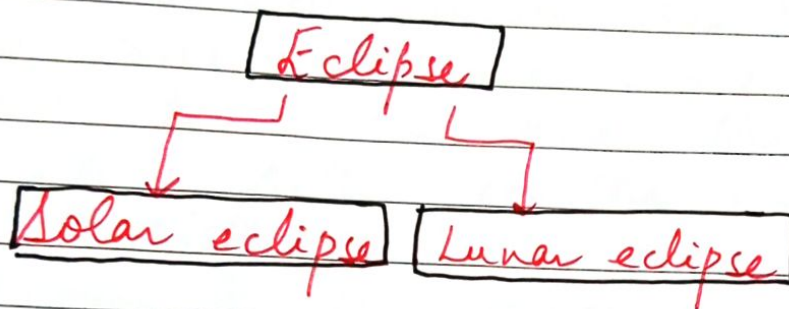
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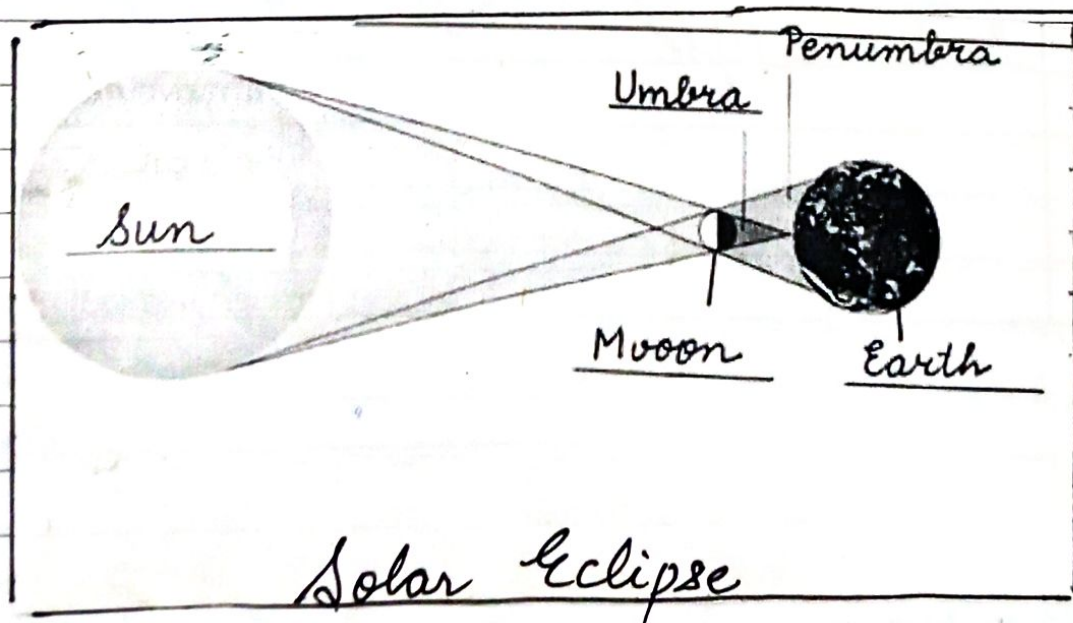
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Eclipse:- The partial or total blocking of light of one celestial object by another.



1.) Solar eclipse:- The sun seems to remain stationary in the universe. Sometimes, the moon, while travelling in its orbit, comes between the sun and the Earth. When this happens, the moon's shadow falls on the earth and people in this shadow cannot see the sun. Hence, we say it solar eclipse.



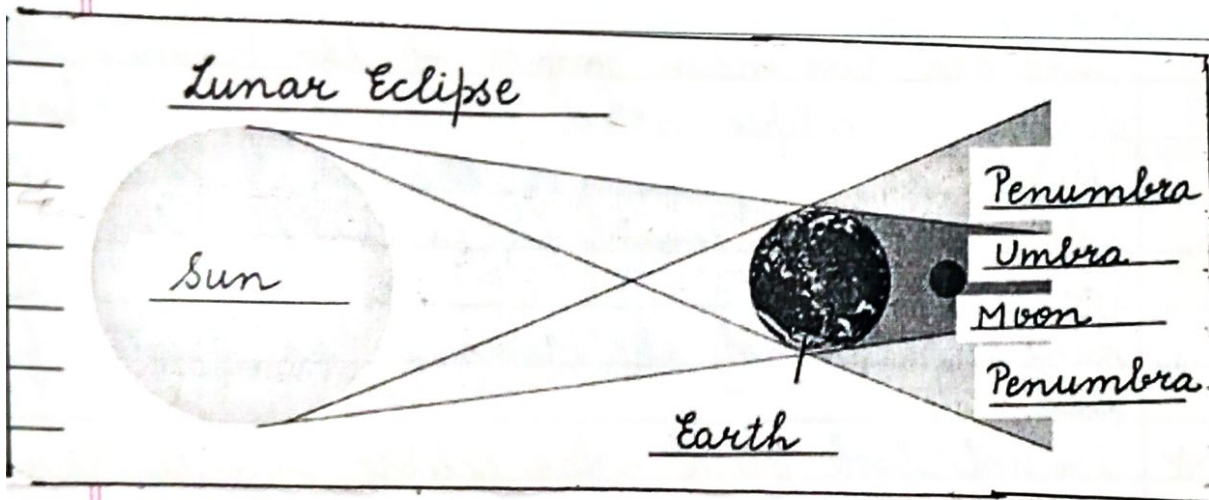
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Lunar Eclipse:- Lunar Eclipse occurs when the earth comes between the sun and the moon during its revolution. When this happens, the moon does not receive light from the sun and the earth's shadow falls on the moon due to which moon disappears or appears to be darkened.



Let us now recapitulate the content of the chapter.

- 1.) Name the two main types of eclipses.
- 2.) Name the eclipse in which earth comes between the sun and the moon?
- 3.) Name the eclipse in which the moon comes between sun and the earth.

Answers:- 1.) Solar eclipse, Lunar eclipse.

2.) Lunar eclipse 3.) Solar eclipse.

Thank you!

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