

Jender Heart High School, Chandigarh

Class-VI

Subject: Physics

Date: 4.11.24

Chapter-5

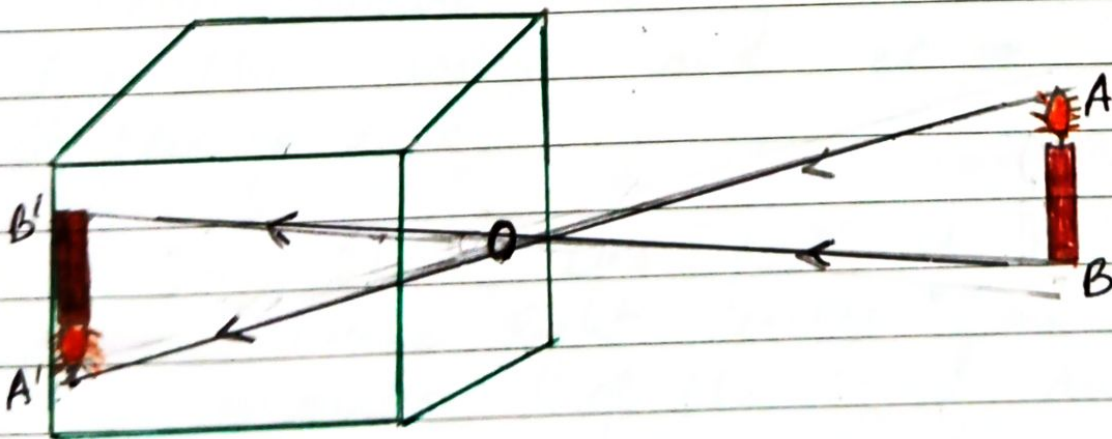
Light.

Teacher: Nimrita.

Good Morning Children! This lesson is of class-VI, Subject - Physics, light of your textbook Concise Physics, Selina Publications. It is being submitted to you on: 4th Nov 2024. In the last topic, we studied about light, its sources and rectilinear propagation of light. Today, we will study about applications of rectilinear propagation of light.

1) Pin hole camera:

- It consists of a cardboard box.
- One of the face of the box is with pinhole and opposite face of the box is fixed with a wax paper.



- An inverted, real image of the object is obtained on the screen.

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Factors affecting the size of the image:-

- 1) Distance of the screen from the pinhole on the size of the image
As distance increases, image's size also increases.
- 2) Distance of the object from pinhole on size of the image.
As the distance of object from pin hole is increased, the size of the image decreases.

Shadow:-

Shadow of an opaque object is the dark patch obtained on the screen when that opaque object is placed in the path of light.

Umbra:- It is the part of the shadow where no light reaches from the source. and it is completely dark.

Penumbra:- It is the part of the shadow where light reaches from only a portion of the source and is partially dark.

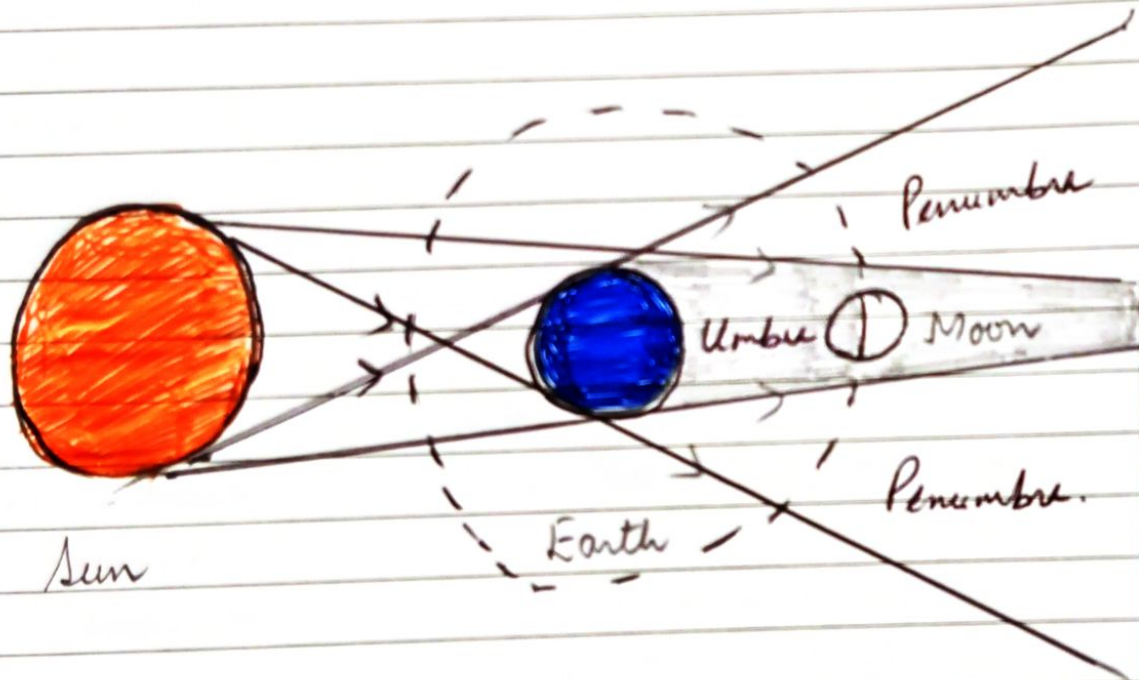
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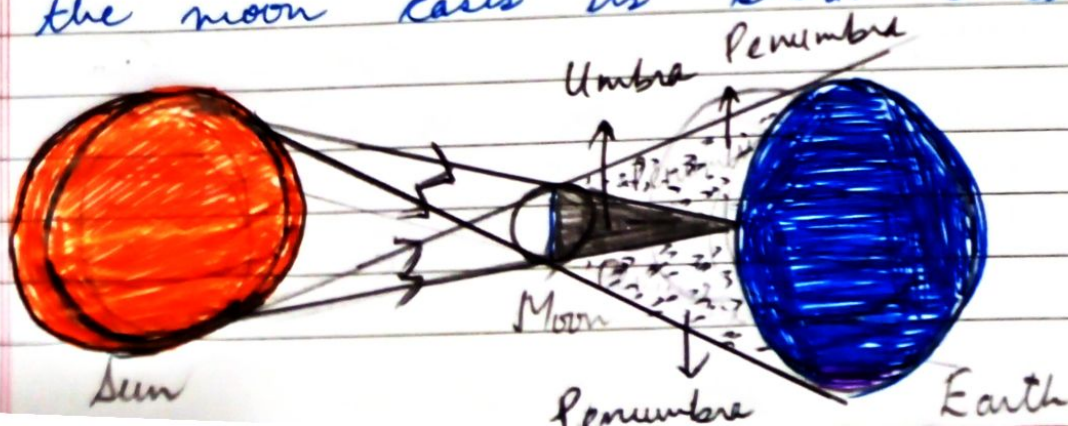
Teacher: Nimrita.Eclipses:-

These are of two types:

- 1) Lunar eclipse:- It is caused on full moon night when the earth comes in between the sun and moon and the earth casts its shadow on moon.



- 2) Solar eclipse:- It is caused on new moon's day when the moon comes between the sun and the earth and the moon casts its shadow on earth.



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With this, I am ending today's topic.
Please read the chapter from your
book.

Thank you!