

## Homework

### Light Energy

1- What is rectilinear propagation of light?

Ans Rectilinear propagation of light is known as the ~~light~~ property of light travelling in a straight line. Which means, a light source can be seen only if there is a straight-line path between the source of light and our eyes.

2. What is pin hole camera?

Ans Pin Hole Camera is a simple application of the rectilinear propagation of light.

3- State two factors which affect the size of image formed in a pin hole camera

Ans Two factors which affect the size of image formed in a pin hole camera are:

(i) Effect of distance of screen from the pin hole on the size of image.

(ii) Effect of the distance of object from the pin hole on the size of image.

4. State Characteristics of the image formed by the pin hole camera:

Ans- Characteristics of the image formed by the pin hole camera are.

(i) It is real i.e. it is formed on the screen.

(ii) It is inverted or upside down.

(iii) It is generally smaller in size than the object (because the object is far away from the pin hole than the screen.)