

Class-X(Concept Map)

Position of the object	Position of the image	Size of the image	Nature of the image
At infinity	At the focus F	Highly diminished	Real and inverted
Beyond C	Between F and C	Diminished	Real and inverted
At C	At C	Same size	Real and inverted
Between F and C	Beyond C	Magnified	Real and inverted
At F	At infinity	Highly magnified	Real and inverted
Between optical centre and F	Behind the mirror	Magnified	Virtual and erect

$m = \text{positive} = \text{virtual \& erect image}$
 $m = \text{negative} = \text{real \& inverted image}$
 Measured in diopter(D) $m = \frac{v}{u} = \frac{h_2}{h_1}$
 $v = \text{image distance}$
 $u = \text{object distance}$
 $f = \text{focal length}$

Position of the object	Position of the image	Size of the image	Nature of the image
At infinity	At F	Highly diminished	Virtual and erect
Between O and #	Between O and F	Diminished	Virtual and erect

