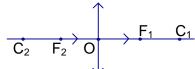
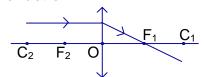
## CONVEX LENS – FORMATION OF IMAGE – PLACE OF IMAGE – RAY DIAGRAMS BEHAVIOUR OF LIGHT RAYS WHICH INCIDENT ON THE LENS

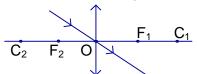
 Any ray passing along the principal axis is un deviated, after refraction.



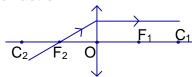
•Any ray which is passing parallel to the axis will pass through the focus, after refraction.



•Any ray passing through the optic centre is undeviated, after refraction.



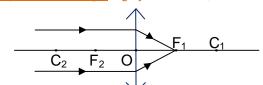
 Any ray passing through the focus will move parallel to the axis, after refraction.



## THE RAY DIAGRAMS FOR IMAGE FORMATION BY CONVEX LENS

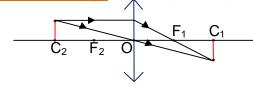
olf object is placed at infinite distance on the principal axis of a convex lens, the image will be collected at focus on other side.

Properties of image. highly diminished, inverted, real



•If object is placed at centre of curvature on the principal axis of a convex lens, the image will be collected at centre of curvature on other side.

Properties of image. Same size, inverted, real

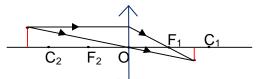


•If object is placed at focus on the principal axis of a convex lens, the image will be collected at infinite distance on the other side.

Properties of image: Highly enlarged, inverted, real

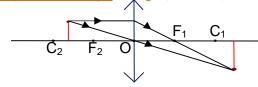
 If object is placed beyond centre of curvature on the principal axis of a convex lens, the image will be collected between centre of curvature and focus on other side.

Properties of image: diminished, inverted, real



 If object is placed between centre of curvature and focus on the principal axis of a convex lens, the image will be collected beyond centre of curvature on other side.

Properties of image: Enlarged, inverted, real



 If object is placed between focus and optical cantre on the principal axis of a convex lens, the image will be collected at object's side.

Properties of image. Enlarged, erect, virtual F<sub>1</sub> C<sub>1</sub>

 $C_2$ 

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