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

oAny 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 BAY DIAGRAMS EORIMAGEEORMATIONBYCONVEXLENS
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

olf 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

olf 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.


- 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
- 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
 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


