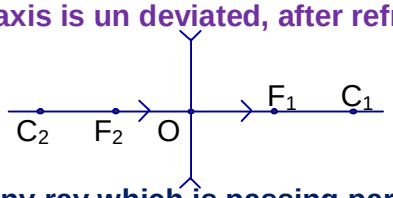
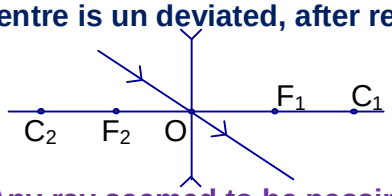
CONCAVE LENS – FORMATION OF IMAGE – PLACE OF IMAGE – RAY DIAGRAMS

BEHAVIOUR OF LIGHT RAYS WHICH INCIDENT ON THE LENS

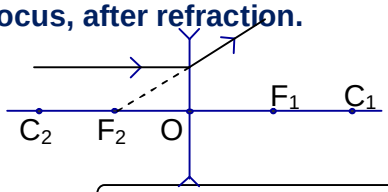
- Any ray passing along the principal axis is un deviated, after refraction.



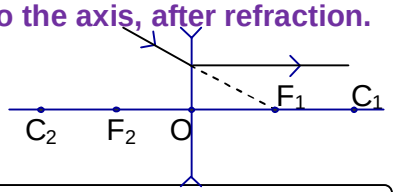
- Any ray passing through the optic centre is un deviated, after refraction.



- Any ray which is passing parallel to the axis will appear to be coming from the focus, after refraction.



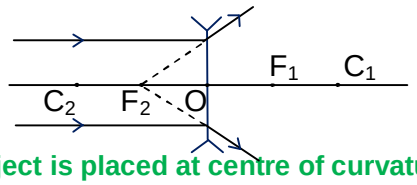
- Any ray seemed to be passing through the focus will move parallel to the axis, after refraction.



THE RAY DIAGRAMS FOR IMAGE FORMATION BY CONCAVE LENS

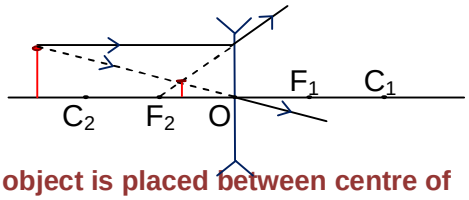
- If object is placed at infinite distance on the principal axis of a concave lens, the image will be collected at focus on the Object's side.

Properties of image: Diminished, erect, virtual



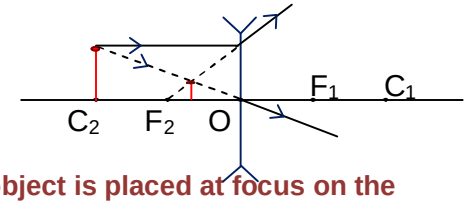
- If object is placed beyond centre of curvature on the principal axis of a concave lens, the image will be collected between Optic centre and focus on object's side.

Properties of image: Diminished, erect, virtual



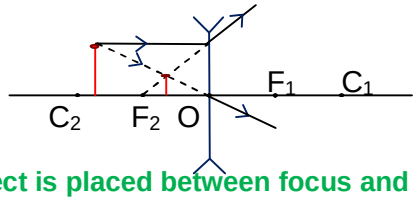
- If object is placed at centre of curvature on the principal axis of a concave lens, the image will be collected between Optic centre and focus on object's side.

Properties of image: Diminished, erect, virtual



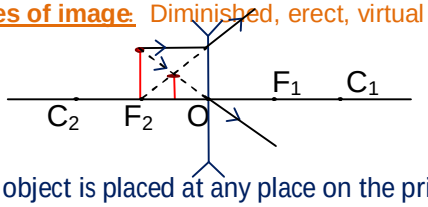
- If object is placed between centre of curvature and focus on the principal axis of a concave lens, the image will be collected between optic centre and focus on object's side.

Properties of image: Diminished, erect, virtual



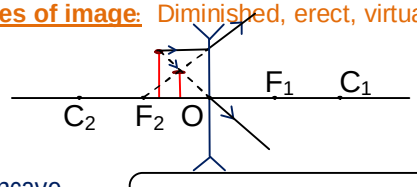
- If object is placed at focus on the principal axis of a concave lens, the image will be collected between optic centre and focus on object's side.

Properties of image: Diminished, erect, virtual



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

Properties of image: Diminished, erect, virtual



Note : If object is placed at any place on the principal axis of a concave lens, the image should be collected between optic centre and focus at object's side. **Properties of image:** Diminished, erect, virtual

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