

3055 BA SANGAM COLLEGE

PH: 6674003/9264117 E-mail: basangam@connect.com.fj



Worksheet 19

Year/Level: 11

Subject: Physics	
Strand	4 -Light
Sub-strand	Refraction
Content Learning	Objective:
Outcome	• Demonstrate by drawing scaled ray diagrams an understanding of the
	formation and nature of the images due to concave and convex lens.

REFRACTION THROUGH LENSES

School: Ba Sangam College

There are two basic types of lenses:

1. Convex or converging lenses: these are thicker at the centre than at the outside.



2. Concave or diverging lenses: these are thinner at the centre than at the outside.



Draw any two rules to locate the image

Rule-1: When a ray of light strikes the convex or concave lens obliquely at its optical centre, it continues to follow its path without any deviation.



Rule-2: When rays parallel to the principal axis strikes a convex or concave lens, the refracted rays are converged to (convex lens) or appear to diverge from (concave lens) the principal focus.



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Rule-3: When a ray passing through (convex lens) or directed towards (concave lens) the principal focus strikes a convex or concave lens,



Example Images Formed by Convex Lens



Nature of the image: Real, Inverted, Same size









6. Object placed beyond C



^{7.} Object placed at C

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8. Object placed between F and C



9. Object placed at F



Nature of the image:

10. Object placed between F and lens



THE END