



PHYSICS FORM FOUR

CHAPTER ONE THIN LENSES.

A lens is conventionally defined as a piece of glass which is used to focus or change the direction of a beam of light passing through it. They are mainly made of glass or plastic. Lenses are used in making spectacles, cameras, cinema projectors, microscopes and telescopes.

Types of thin lenses.

A lens which is thicker at its centre than at its edges converges light and is called **convex or converging lens**. A lens which is thicker at its edges than at its centre diverges light and is known as **concave or diverging lens**.



Fig. 1.1(a) Converging lenses



Fig. 1.1(b) Diverging lenses

Properties of lenses.

1. **Optical centre** – this is the geometric centre of a lens which is usually shown using a black dot in ray diagrams. A ray travelling through the optical centre passes through in a straight line.
2. **Centre of curvature** – this is the geometric centre of the circle of which the lens surface is part of. Since lenses have two surfaces there are two centres of curvature. C is used to denote one centre while the other is denoted by C' .

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