



# 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  $C'$ .

# Physics Form 4 Notes

**Ben Jonson**



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$y = 0$  and  $\lim_{y \rightarrow 0} \sin^{-1} y = 0$