



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

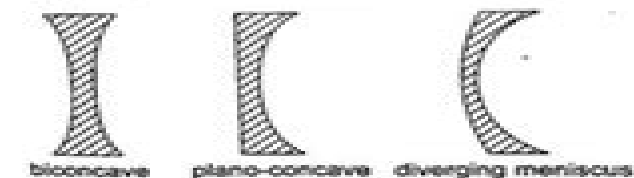


Fig. 1.1(b) Diverging lenses

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

SJ Ball



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The Ethics of Aristotle illustrated with essays and notes by Alexander Grant Aristoteles,Alexander Grant,1874 *Review Notes and Study Guide to the Philosophy of Aristotle* Barbara Jancar,1964 **Notes and Queries** ,1872 **The Music Bulletin (New York, N.Y.)** ,1914 The Johns Hopkins University Circular Johns Hopkins University,1900 Includes University catalogues President s report Financial report registers announcement material etc **Physics Briefs** ,1988

Catalogue of Scientific Papers: ser. 4 1884-1900 Royal Society (Great Britain),1915 *Key Notes* ,1979 **De Anima** Aristotle,1907 Aristotle De Anima Aristotle,1907 **The American Catalog** ,1896 **Catalogue of Scientific Papers (1800-1900): ser. 4 , 1884-1900** Royal Society (Great Britain),1915 **Rubber Journal** ,1925

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