



# 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

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**Soviet Physics, Doklady** ,1974      **The Civil Service English Grammar: Being Notes on the History and Grammar of the English Language, Etc** W. V. Yates,1873      *The devil is an ass, ed. with intr., notes, and glossary by W.S. Johnson* Ben Jonson,1905      *The Comprehensive School* Elizabeth Halsall,1973 The Comprehensive School Guidelines for the Reorganization of Secondary Education focuses on the main issues basic to the reform of secondary education as part of the move toward comprehensivization in schools These issues concern the less able and the culturally disadvantaged children the streaming non streaming controversy guidance and counseling and the curriculum      *The Jacob Tome Institute, Port Deposit, Maryland* ,1905      **Report** Newport, R.I. School Committee,1914      **The Hindustan Review** ,1923      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 Encyclopaedia Britannica Thomas Spencer Baynes,1875      **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      *Aristotle De Anima* Aristotle,1907      *De Anima* Aristotle,1907      *The American Catalog* ,1896      **Rubber Journal** ,1925

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