



# 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

**Johns Hopkins University**



## **Physics Form 4 Notes:**

The book delves into Physics Form 4 Notes. Physics Form 4 Notes is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physics Form 4 Notes, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Physics Form 4 Notes
  - Chapter 2: Essential Elements of Physics Form 4 Notes
  - Chapter 3: Physics Form 4 Notes in Everyday Life
  - Chapter 4: Physics Form 4 Notes in Specific Contexts
  - Chapter 5: Conclusion
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6. In chapter 5, the author will draw a conclusion about Physics Form 4 Notes. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Physics Form 4 Notes.

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