

# # LENS #

A lens is a transparent refracting medium bounded by two surfaces, one of which must be spherical.

## \* Types of lenses

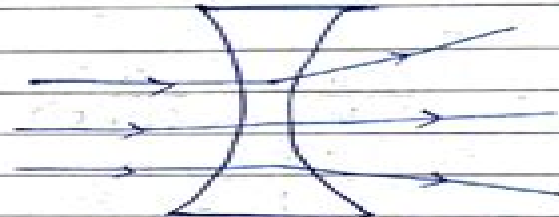
Convex lens

(Converging lens)



Thick in middle

Concave lens (diverging lens)

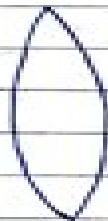


Thick at edges

Note:- In Our syllabus all lenses are very very thin

## Further Classification :-

1. Convex lens.



Bi convex lens  
or  
equi-convex lens



Plano-  
Convex lens



Thick in  
middle  
(convex lens)

Concavo - Convex  
Lens.

tells shape  
nature

tells  
nature

# Concave Lenses Note Taking Guide

**Carolina Biological Supply Company**

A red circular graphic with a gradient, appearing as a partial circle or a lens-like shape, located to the right of the Carolina Biological Supply Company text.

## Concave Lenses Note Taking Guide:

*Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal* Dr. J. P. Goel, Er. Meera Goyal, 2020-06-24

**SECTION A EXPERIMENTS**

- 1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current
- 2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material
- 3 To verify the laws of combination Series Parallel of resistance using ammeter bridge
- 4 To compare the e m f of two given primary cells using potentiometer
- 5 To determine the internal resistance of a given primary cell e g Leclanche cell using potentiometer
- 6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit
- 7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same
- 7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same
- 8 To find the frequency of AC mains with a sonometer and horse shoe magnet

**SECTION B EXPERIMENTS**

- 1 To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length
- 2 To find the focal length of a convex lens by plotting graph between  $u$  and  $v$  or  $1/u$  and  $1/v$
- 3 To find the focal length of a convex mirror using a convex lens
- 4 To find the focal length of a concave lens using a convex lens
- 5 To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation
- 6 To determine refractive index of a glass slab using a travelling microscope
- 7 To find the refractive index of a liquid by using a convex lens and a plane mirror
- 8 To draw I V characteristics curve of a p n junction in forward bias and reverse bias
- 9 To draw the characteristics curve of a zener diode and to determine its reverse break down voltage
- 10 To study the characteristics of a common emitter n p n or p n p transistor and to find out the values of current and voltage gains

**SECTION A ACTIVITIES**

- 1 To measure the resistance and impedance of an inductor with or without iron core
- 2 To measure resistance voltage AC DC current AC and check continuity of given circuit using multimeter
- 3 To assemble a household circuit comprising of three bulbs three on off switches a fuse and a power source
- 4 To assemble the components of a given electrical circuit
- 5 To study the variation in potential drop with length of a wire for a steady current
- 6 To draw the diagram of a given open circuit comprising atleast a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram

**SECTION B ACTIVITIES**

- 1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor
- 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items
- 3 Use a multimeter to i identify the transistor ii distinguish between n p n and p n p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic components e g diode transistor or IC is in working order
- 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
- 5 To observe polarisation of light using two polaroids
- 6 To observe diffraction of light due to a thin slit
- 7 To study the nature and size of the image formed by i convex lens ii concave

mirror on a screen by using candle and a screen for different distance of the candle from the lens mirror 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses SUGGESTED INVESTIGATORY PROJECT 1 To Study Various factors on which the Internal Resistance EMF of a cell depends 2 To study the variations in current following in a circuit containing L D R because of variation a In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a incandescent lamp of fixed power used to illuminate the L D R 3 To find the refractive indices of a Water b Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle 4 To design an appropriate logic gate combination for a given truth table 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an a c source of adjustable frequency 9 To study the earth's magnetic field using a tangent galvanometer

APPENDIX Some Important Tables of Physical Constants Logarithmic and other Tables **Certified Ophthalmic Technician Exam Review Manual** Janice K. Ledford, 2004 The Certified Ophthalmic Assistant Exam Review Manual Second Edition is a revised edition of the best selling exam preparation manual It is an essential resource for anyone preparing to become certified as an ophthalmic assistant With over 650 exam style questions and explanatory answers illustrations and photographs this user friendly text is excellent for both learning and reviewing important eye care topics Subjects include taking a patient history lensometry measuring intraocular pressure understanding optics and much more This edition is also helpful for students and others studying for certification in optometry contact lenses and opticianry **The Guide to Kinematography for Camera Men, Operators, and All who Want to Know** Colin Noe l Bennett, 1917 **Primitive Photography** Alan Greene, 2013-04-11 Primitive Photography considers the hand made photographic process in its entirety showing the reader how to make box cameras lenses paper negatives and salt prints using inexpensive tools and materials found in most hardware and art supply stores Step by step procedures are presented alongside theoretical explanations and historical background Streamlined calotype procedures are demonstrated featuring different paper negative processes and overlooked developing out printing methods Primitive Photography combines the simplicity of pinhole photography the handmade quality of alternative processes and the precision of large format For those seeking alternatives to commercially prepared material as well as digital photography it provides the instructions for creating the entire photographic process from the ground up Given its scope and treatment of the photographic process as a whole this may be the first book of its kind to appear in over a century *The Refractionist*, 1911 [A Manual of Photography](#) Robert Hunt, 1854 **Catalogue**

**& Buyers Guide, 1894-95** Montgomery Ward, 1977 , **Popular Mechanics Shop Notes** , 1917 *English Mechanic and Mirror of Science and Art* , 1883 **English Mechanic and Mirror of Science** , 1872 **Teaching the Visually Handicapped** Kenneth A. Hanninen, 1975 **The Keystone** , 1905 Biology/science Materials Carolina Biological Supply Company, 1991 **Scientific American** , 1872 **The British Journal of Photography** , 1880 The Astrophysical Journal , 1903 Letters to the Editor issued as Part 2 and separately paged from v 148 1967 *English Mechanic and World of Science* , 1874 *General Zoology Laboratory Guide* Charles F. Lytle, John R. Meyer, 2004-05 General Zoology Laboratory Manual is ideal for the laboratory that emphasizes the dissection and microscopic study of live and preserved specimens Recognized for its accuracy and readability this manual is comprehensive in its representation of the major groups of animal phyla This new edition is suitable for a wide range of course needs and structures **Webster's New International Dictionary of the English Language, Based on the International Dictionary 1890 and 1900** William Torrey Harris, Frederic Sturges Allen, 1911

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