

Experiments Links:

1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current.

https://www.youtube.com/watch?v=wwfr3xVAkDE&list=RDCMUComEW1r_e-eGYJO9pUooA9Q&start_radio=1&t=387

2. To find resistance of a given wire / standard resistor using meter bridge.

https://www.youtube.com/watch?v=gnVlpalBh5c&list=RDCMUComEW1r_e-eGYJO9pUooA9Q&index=2

3. To determine resistance of a galvanometer by half- deflection method and to find its figure of merit.

https://www.youtube.com/watch?v=MTkIFCT6vCg&list=RDCMUComEW1r_e-eGYJO9pUooA9Q&index=4

4. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.

https://www.youtube.com/watch?v=c4aHBTpzjU4&list=RDCMUComEW1r_e-eGYJO9pUooA9Q&index=28

5. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.

https://www.youtube.com/watch?v=EjICNRafqrM&list=RDCMUComEW1r_e-eGYJO9pUooA9Q&index=14

6. To find the focal length of a convex mirror, using a convex lens.

https://www.youtube.com/watch?v=6TkWGeB7yBU&list=RDCMUComEW1r_e-eGYJO9pUooA9Q&index=38

7. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.

https://www.youtube.com/watch?v=9S1UFVCd3iA&list=RDCMUComEW1r_e-eGYJO9pUooA9Q&index=3

8. To determine refractive index of a glass slab using a travelling microscope.

https://www.youtube.com/watch?v=RSWyftk1Oac&list=RDCMUComEW1r_e-eGYJO9pUooA9Q&index=8

9. To find refractive index of a liquid by using convex lens and plane mirror.

https://www.youtube.com/watch?v=Rw2WE81iAFc&list=RDCMUComEW1r_e-eGYJO9pUooA9Q&index=12

Activities Links:

1. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.

<https://www.youtube.com/watch?v=ANVJAmQRTm8>

2. To assemble the components of a given electrical circuit.

<https://www.youtube.com/watch?v=TVFxCQHywnA>

3. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

<https://www.youtube.com/watch?v=IN0RG9gDA8E>

4. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.

<https://www.youtube.com/watch?v=1IjvaWWfAHY>

5. To observe diffraction of light due to a thin slit.

<https://www.youtube.com/watch?v=scUgNP3L0fQ>

6. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.

<https://www.youtube.com/watch?v=KkZhXyplemw>