

**DAV Public school,(ECL), S.P Mines Chitra  
Deepawali and Chhath holiday home assignments(16-17)**

---

**Class- XII**

**Subject- Physics**

**Prepare for board examination-**

1. Mirror formula, Lens formula
2. Lens maker formula.

$$\frac{1}{f} = (\mu - 1) \left( \frac{1}{R_1} - \frac{1}{R_2} \right)$$

3. Refraction through spherical surfaces

$$\frac{-u_1 - u_2}{u \quad v} = \frac{u_2 - u_1}{R}$$

4. Prism formula ----

$$n = \frac{\sin(A + \sin/2)}{\sin A/2}$$

5. Draw ray diagram for compound Microscope for distinct vision and its construction theory and magnifying power.
6. Draw a diagram for Astronomical telescope and its construction theory principal and magnifying power.
7. Huygen's principle to prove lens of reflection and refraction on the basis of Huygen's principle.
8. What is interference of light . Find expression for fringe width.
9. (a) Diffraction of light (b)
10. Dual nature of matter and radiation(Whole chapter imp topics).