

St. Andrews Scots Sr. Sec. School

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Session: 2025 – 2026

(Worksheet-12)

Class-VII

Subject - Science

Chapter: Light

Q1. Define:

- a) Principal focus
- b) Radius of curvature
- c) Angle of incidence
- d) Lens
- e) Dispersion of light

Q2. Fill in the blanks:

- a) The image which cannot be obtained on a screen is called _____ image.
- b) _____ lens is present in our eyes.
- c) The distance between the optical centre and focus of lens is called _____.
- d) A lens which is thinner in the middle and thicker at edges is called _____.
- e) _____ mirror is used in the shaving mirrors by the barbers.

Q3. Answer in one word:

- a) Name the lens which is used in magnifying glasses.
- b) Which mirror is used as reflectors in torches and headlights?
- c) What type of image is formed in case of concave lens?
- d) Name the type of lens which diverges a beam of parallel rays of light.
- e) Which colour is deviated the least by prism in the spectrum of white light?

Q4. State whether the following statement is true or false:

- a) A convex lens always produces a real image.
- b) An object can be seen only if it emits light.
- c) The image formed in a plane mirror is erect, enlarged and virtual.
- d) A prism splits light into six colours.
- e) There are 3 types of spherical mirrors.

Q5. Answer the following questions:

- a) In the formation of a rainbow, what acts as tiny prisms?
- b) Is the image formed by a plane mirror is always upright?
- c) Briefly mention how many types of lens are there. Explain each of them.
- d) State the characteristics of image formed by a plane mirror,
- e) We need a shiny surface for reflection. Explain why.