

ST. THOMAS SCHOOL, LONI
PRACTICE WORKSHEET(OCTOBER)

SUB: SCIENCE

CLASS: VII-_____

Name:_____ **Roll no.:**_____ **Date:**_____

Note: Date of submission is 09/10/10

Do the given worksheet on A4 ruled sheet and attach it in the portfolio.

Question 1. Fill the blanks-

- a. The property by which light in the straight line is termed as _____
- b. Light travels with a speed of _____ km/s in air.
- c. The splitting of white light into its seven constituent colours is called _____
- d. _____ is the study of spectrum formed when a surface emits light.
- e. _____ was the first person who discovered that sunlight is made up of seven colours.
- f. _____ lens is present in human eye.
- g. A _____ lens always forms an erect, virtual and diminished image.

Question 2. Answer the following questions –

a. Differentiate between the following (3 points each)

- 1) Concave and convex mirror.
- 2) Real and virtual image.

- b. Define a) Mirror b) lens c) prism d) rainbow e) lateral inversion
- c. Which mirror is used as rear view mirror and why?
- d. Why is it dangerous to look at the sun through a convex lens?
- e. What is a Newton's disc? How does it show that light is composed of many colours?
- f. Why is concave mirror used in search lights and head lights?

Question 3. Write true or false-

- a. Light is the fastest travelling form of energy
- b. Light travels in curve path
- c. As per law of reflection, Angle of Incidence = Angle of Reflections
- d. A concave lens can be used to produce an enlarged and erect image.
- e. An object can be seen only if it emits light
- f. A concave lens is called the converging lens

Question 4. Fill in the blanks-

- a. The inner surface of a spoon acts like a _____ while its outer surface acts like a _____
- b. An image formed on a screen is called a _____
- c. _____ mirrors used as side mirrors in scooters /cars
- d. The lenses which are thicker in the middle than at the edges are _____

e. The seven colours in rainbow are red, orange, yellow, green, blue, _____ and _____

Question 5. Choose the correct answer-

i. John and Tom were given one mirror each by their teacher. Tom found his image to be erect and of the same size whereas John found her image erect and smaller in size. This means that the mirrors of John and tom are, respectively

- (a) plane mirror and concave mirror.
- (b) concave mirror and convex mirror.
- (c) plane mirror and convex mirror.
- (d) convex mirror and plane mirror

ii. You are provided with a convex mirror, a concave mirror, a convex lens and a concave lens.

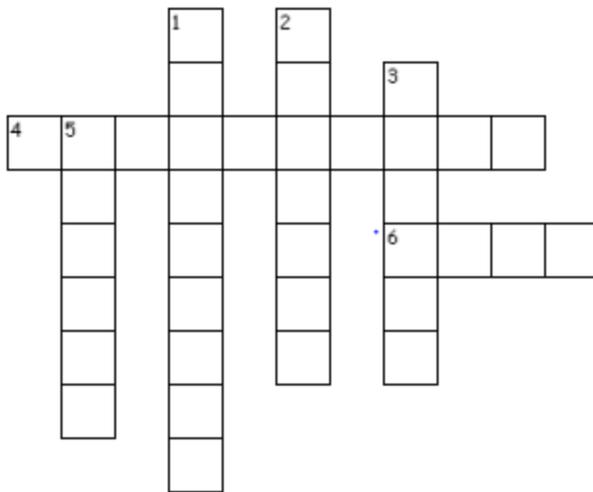
You can get an inverted image from

- (a) both concave lens and convex lens.
- (b) both concave mirror and convex mirror.
- (c) both concave mirror and convex lens.
- (d) both convex mirror and concave lens.

Question 6. Unscrambled the jumbled word-

- a. EALICHPSR
- b. ISRPM
- c. NNOARIW
- d. RVINTDEE
- e. CERTE

Question 7. Crossword Puzzle-



Across

- 4. A convex lens is _____ lens
- 6. An image which can be obtained on a screen

Down

- 1. A concave lens is _____ lens
- 2. An image which cannot be obtained on a screen
- 3. Any polished or a shining surface acts as a _____
- 5. One of the rainbows colours

