

Science Worksheet Class VII  
Light

**1. Fill in the blanks:**

- Light travels along a \_\_\_\_\_.
- The change of direction of light by a mirror is called \_\_\_\_\_ of light.
- The inner surface of a stainless-steel spoon acts like a \_\_\_\_\_ mirror.
- An image that can be obtained on a screen is called a \_\_\_\_\_ image.
- The image formed by a \_\_\_\_\_ mirror is always virtual and smaller in size.
- An image formed by a \_\_\_\_\_ mirror always has the same size of the object.
- Rectilinear propagation of light means light travels in a \_\_\_\_\_ line.

**2. Choose the correct answer in the given options:**

- Which of the following is a converging mirror?  
a. concave mirror      b. convex mirror      c. plane mirror
- The scattering of light into its 7 colours is called  
a. lateral inversion      b. reflection      c. dispersion
- The shape of the reflector in a torch  
a. convex      b. concave      c. plane
- Real image of the sun can be obtained by a  
a. convex mirror      b. concave lens      c. convex lens      d. plane mirror

**3. Name the following:**

- The mirror, a dentist use while examining a patient.
- The lens that converges the light falling on it.
- The lens used in a magnifying glass.
- Light bouncing of a surface.
- An image that cannot be formed on a screen.

**4. Define the following terms:**

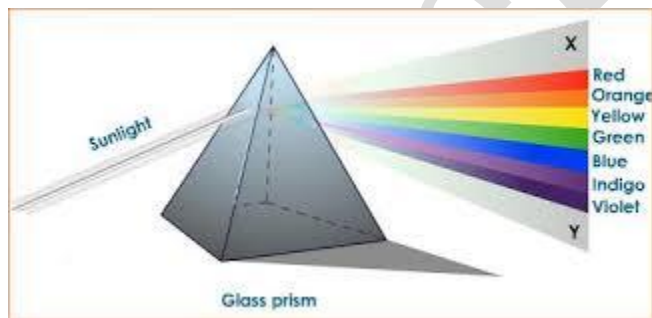
- Light
- Rectilinear propagation of light
- Spectrum
- lateral inversion

## 5. Answer the following:

- Distinguish between concave mirror and convex mirror with the diagrams of each.
- If we want a clear image of an object, what kind of surface should we use?
- Distinguish between concave and convex lenses with the diagrams of each.
- Give the differences between real and virtual images with examples.
- What are the characteristics of image formed by a plane mirror?
- Name and explain the phenomenon seen in the figure. (figure 1)
- Identify the phenomenon shown by the figure. (fig 2)
- Which mirror is used here? Why? (fig 3)



1



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