

Activity: Name, identify, explain, describe, read, answer

1. Name some natural and artificial sources of light.
2. In which ways is light useful?
3. Identify two similarities between a human eye and pinhole camera.
4. Explain how light rays appear when they fall on:
 - Opaque objects.
 - Concave lenses.
 - Convex lenses.
 - Translucent objects.
 - On rough surfaces.
 - Shining surfaces.
5. What is reflection of light?
6. Name the part of the eye that controls the amount of light entering it?
7. Describe the image formed by the human eye.
8. Identify two eye defects and illustrate how each is corrected.
9. Name two common eye diseases?
10. How do we call the straight line along which light travels?
11. How do we call any material which allows light to pass through?
12. How are shadows formed?
13. Identify one difference between umbra and penumbra?
14. What is the major function of a periscope?
15. What is refraction of light?
16. Why does a ruler placed in water appear bent?
17. Mention the colour of a rainbow from top to bottom.
18. Give two uses of shadows in our daily life.

Simple optical instruments

An optical instrument is a device that can make the eye see or observe objects. Some of these instruments are discussed below.