

Notes

Complete the following sentences.

4.1 Importance of light

1. Light is a form of .
2. It allows us to things in our surroundings.
3. It is important in some life processes. For instance, plants can make in the presence of light.

4.2 Sources of light

1. Things that give off light are known as of light.
2. The Sun, stars, firefly and lightning are examples of sources of light.
3. A lighted candle, torch and street light are examples of sources of light.

4. Artificial sources of light require electricity or to work.

4.3 How light allows us to see objects

1. When from a light source falls on an object, it bounces off the surface of the object.
2. We say that the light is from the object.
3. When light is reflected from an into our eyes, we can see the object.

4.4 Transparency of objects

1. The transparency of a material is its ability to allow to pass through it.
2. Materials such as clear glass and water allow light to pass through it.
3. Materials such as metal and wood allow light to pass through it.
4. Materials such as tracing paper and frosted glass allow light to pass through it.

4.5 Formation of shadows

1. Light travels in lines.
2. Anything which the path of light will cast a shadow.
3. A shadow is always formed the object.
4. A light shadow is formed when light is blocked.
5. A dark shadow is formed when light is blocked.

Shapes of shadows

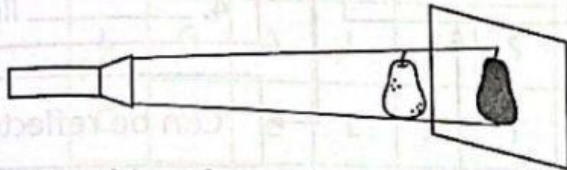
6. A shadow resembles the of an object but it may not be of similar size as the object.
7. The shadows of an object can be different depending on the of the object with respect to the light source.

Sizes of shadows

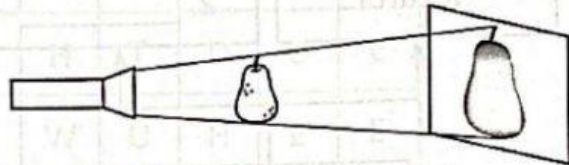
8. The size of a shadow depends on the of the object from the light source.

9. If the object is from the light source, there will be a smaller shadow.

10. If the object is nearer to the light source, there will be a shadow.



Object further from the light source

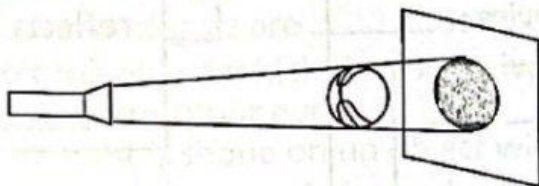


Object nearer to the light source

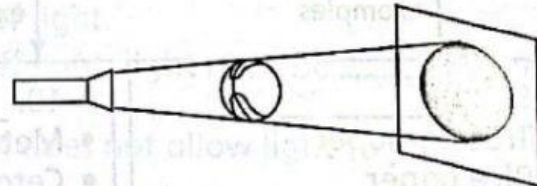
11. The size of a shadow also depends on the of the object from the screen.

12. If the object is nearer to the screen, there will be a shadow.

13. If the object is from the screen, there will be a bigger shadow.



Object nearer to the screen



Object further from the screen