

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

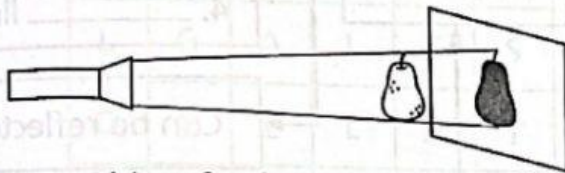
6. A shadow resembles the of an object but it may not be of similar size as the object.
7. The shadows of an object can be different depending on the of the object with respect to the light source.

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

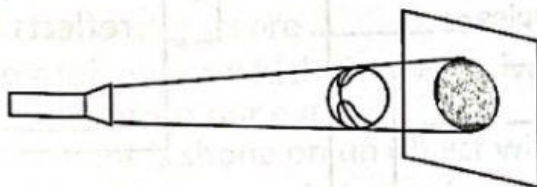


Object nearer to the light source

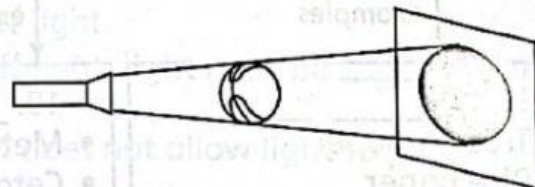
11. The size of a shadow also depends on the ☐☐☐☐☐☐☐☐ of the object from the screen.

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

1. Light is a form of _____.
2. Plants make food in the presence of _____.
3. Objects which give off light on their own are known as _____ of light.
4. The Sun and stars are _____ sources of light.
5. To see an object which does not give off light, light must be _____ from the object into our eyes.
6. When light is shone on an object which does not allow light to pass through it, a _____ is formed.
7. Light travels in _____ lines.
8. The _____ of a shadow changes when the distance between the light source and the object changes.
9. When a light source is shining at different sides of an object, the _____ of the shadows formed will be different.
10. When light is shone on a book, a _____ shadow is formed.

