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.

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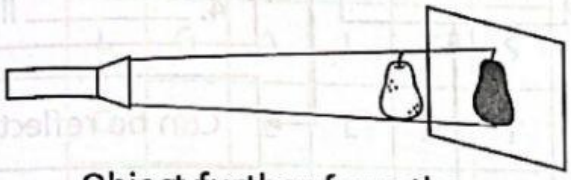
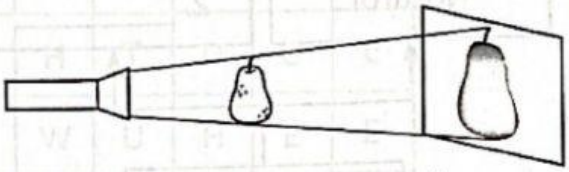
9. If the object is ☐☐☐☐☐☐☐ from the light source, there will be a smaller shadow.

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



Object further from the light source

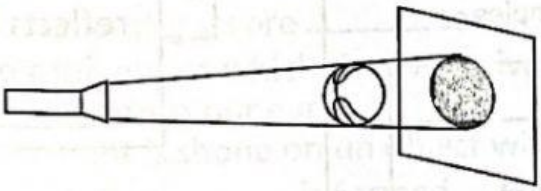


Object nearer to the light source

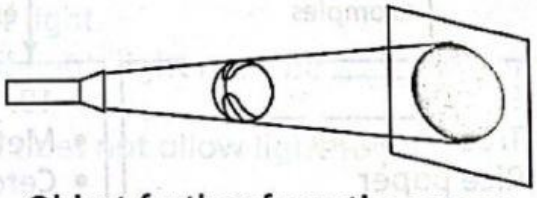
11. The size of a shadow also depends on the ☐☐☐☐☐☐☐☐ of the object from the screen.

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

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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.

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