



Worksheet

Grade 6- Science

Chapter 14- Light, Shadow and Reflection

Choose the correct Answer:

1. What is the primary role of light in photosynthesis?
 - (a). Providing heat to plants.
 - (b). Enabling plants to make food.
 - (c). Creating oxygen for animals.
 - (d). Illuminating the environment.
2. How does light enable us to see objects?
 - (a). By giving objects colour.
 - (b). Through the process of reflection.
 - (c). By causing objects to emit light.
 - (d). By making objects transparent.
3. What is a characteristic of an image formed by a plane mirror?
 - (a). It can be projected on a screen.
 - (b). It is always smaller than the object.
 - (c). It is upright and laterally inverted.
 - (d). It is closer to the mirror than the object.
4. When an object moves closer to a plane mirror, what happens to the image?
 - (a). The image moves closer to the object.
 - (b). The image becomes smaller.
 - (c). The image moves away from the mirror.
 - (d). The image becomes larger
5. will allow most of the light to pass through it.
 - a. a wooden table
 - b. a book
 - c. an eraser
 - d. water
6. The speed of light is .
 - a. 3×10^8 km/s
 - b. 3×10^8 m/s

c. 8×10^3 km/s

d. 8×10^3 m/s

7. Which one of the following is the natural source of light?

(a) Electric bulb

(b) Sun

(c) Tube light

(d) Moon

8. The object which does not have light of its own is

(a) shining mirror

(b) light bulb

(c) star

(d) lighted match box

9. A torch is a

(a) luminous

(b) non-luminous

(c) both of these

(d) none of these

10. Which of the following is a non-luminous object?

(a) Torch

(b) Sun

(c) Electric light

(d) Chair

11. Objects that do not give out or emit light of their own are called

(a) luminous

(b) non-luminous

(c) opaque

(d) translucent

12. Which of the following is a luminous object?

(a) Pencil

(b) Chair

(c) Sun

(d) Table

13. The objects which allow light to pass through them are called

(a) transparent

(b) opaque

(c) translucent

(d) none of these

14. Glass sheet is a/an

(a) transparent object

(b) opaque object

- (c) transparent object
- (d) none of these

15. Solid wax is
- (a) transparent
 - (b) translucent
 - (c) opaque
 - (d) none of these

Fill in the blanks:

16. Shadows are formed when _____ objects block the path of light.
17. The area of darkness created on the opposite side of an object due to light blocking is called a _____.
18. Shadows are a result of light traveling in _____ lines.
19. Luminous objects _____ light, while non-luminous objects _____ light.
20. The Moon is considered a _____ object because it _____ produce its own light.
21. A candle flame is an example of a _____ object because it _____ light.
22. Objects that give out or emit light of their own are called _____ objects.
23. The darkness that an object cause when it prevents light to pass through is called _____.
24. Image formed by a plane mirror is _____.
25. The phenomenon due to which light returns back after striking a highly polished surface is called _____ of light.

Answer in one word:

26. A group of light rays traveling in the same direction:
27. Light rays that travel side-by-side without meeting:
28. Light rays that spread out from a point:
29. Light rays that meet at a point:
30. Shadows formed by heavenly objects.

Who am I?

31. I can only reflect light that falls on me: _____.
32. I am the process of light striking a surface and bouncing off in opposite direction: _____.
33. I am formed when an opaque object comes in the path of light: _____.
34. You see me in a plane mirror: _____.
35. I can predict the date and time of an eclipse: _____.

Satet whether true or false:

36. Light always travels in a straight line.
37. A shadow is always formed on the side where the light source is









located.

38. An opaque object allows light to pass through it completely.

39. When you place a mirror flat on a surface, it can reflect light.

40. Pinhole camera forms an inverted image.

41. The following table shows some objects in column A. Some shadows are shown in column B. **Match the object with the possible** outline of the shadow(s). Please note that a figure in column B could correspond to more than one object in column A and vice versa.

Column A	Column B
1. 	a. 
2. 	b. 
3. 	c. 
4.  (the candle is blown off, before observing the shadow)	d. 
	e. 