

1. Which of the following is a luminous object?

- A. Moon
B. Mirror
C. Sun
D. Wooden table (D)

Explanation : The Sun emits its own light and is a natural luminous object.

2. What conclusion was drawn from the matchbox and torch activity?

- A. Light bends freely
B. Light does not need a medium
C. Light travels in a straight line
D. Light stops when air is absent (C)

Explanation : The light spot appeared only when the holes were aligned, showing straight-line travel.

3. Which material allows light to pass completely through it?

- A. Thick cloth
B. Tracing paper
C. Cardboard
D. Glass (D)

Explanation : Glass is transparent, allowing almost all light to pass through.

4. What is formed when an opaque object blocks the path of light?

- A. Reflection
B. Refraction
C. Shadow
D. Beam (D)

Explanation : Shadows are dark patches formed where light does not reach because an opaque object blocks it.

5. Which condition is NOT required to observe a shadow?

- A. Screen
B. Opaque object
C. Light source
D. Transparent object (D)

Explanation : A transparent object does not block light, so it cannot form a shadow.

6. What happens when the object is moved closer to the torch?

- A. The shadow disappears
B. Shadow becomes lighter
C. Shadow becomes larger
D. Shadow becomes coloured (C)

Explanation : As the object approaches the light source, the shadow size increases.

7. What is the term for left-right reversal seen in a plane mirror?

- A. Reflection
B. Inversion
C. Lateral inversion
D. Rotation (C)

Explanation : Plane mirrors reverse left and right, a phenomenon called lateral inversion.

8. Heat from the sun reaches Earth by:

- A. Conduction
B. Convection
C. Radiation
D. Filtration (C)

Explanation : Radiation does not need any medium, so heat travels through space by radiation.

9. Water that seeps through soil and rocks and gets stored below is called:

- A. Surface water
B. Rainwater
C. Groundwater
D. Vapour (C)

Explanation : Stored water beneath the ground in pore spaces is groundwater.

10. The continuous movement of water from Earth to atmosphere and back is called:

- A. Distillation
B. Respiration
C. Water cycle
D. Transpiration (C)

Explanation : Evaporation, condensation, precipitation, and seepage together form the water cycle.