

INTERNATIONAL INDIAN SCHOOL BURAIDAH
WORKSHEET FOR THE ACADEMIC YEAR 2025-26

Class-7th / Subject : Science

Lesson 11 LIGHT: SHADOWS AND REFLECTIONS

LESSON 12 EARTH, MOON, AND THE SUN

A. Choose the correct option:

1. Which of the following object emits its own light?
a) Moon b) Sun c) Mirror d) wood
2. Light travels in a:
(a) Curved path (b) Wavy path (c) Straight line (d) circular
3. A periscope works on the principle of:
(a) Refraction (b) Diffusion (c) Reflection (d) Absorption
4. Light passes completely through _____ materials.
a) translucent b) opaque c) transparent d) translucent as well as opaque
5. An upright image is called
a) laterally inverted b) erect c) inverted d) none of these
6. When light is blocked by an opaque object a _____ formed.
a) image b) reflection c) shadows d) image and reflection

B. Fill in the blanks:

1. Light travels in _____ lines.
2. Object that allows light to pass through it partially is called _____ object.
3. An _____ object blocks light, forming a shadow.
4. A _____ forms an image that is virtual, erect, and the same size as the object, but laterally inverted.
5. The phenomenon where a mirror reverses left and right is called _____.
6. A _____ camera creates an inverted image (upside down) of an object on a screen.
7. Object that allows light to pass through it completely is called _____ object.
8. The change in direction of light by a mirror is called the _____ of light.
9. _____ object blocks light completely.
10. Designers and artists often use _____ to get ideas for new patterns.

C. The question below consists of an Assertion and a Reason. Use the following key to choose the appropriate answer.

- (a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
- (b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
- (c) The assertion is true, but the Reason is false.
- (d) The assertion is false, but the Reason is true.

1. Assertion (A): Shadows are always black.

Reason (R): Shadows form when an opaque object blocks light, so no light reaches that area.

2. Assertion (A): The image formed by a plane mirror is virtual.

Reason (R): A virtual image cannot be obtained on a screen.

3. Assertion (A): The longest shadow of an object is seen at noon.

Reason (R): At noon, the sun is directly overhead, so light falls almost vertically.

D. Name the following:

- 1. Objects that emit their own light are called
- 2. An upright image is called
- 3. The object which blocks the light completely are called
- 4. The type of perceived left-right reversal is called

L#12 THE EARTH, MOON, AND THE SUN

A. Choose the correct option:

- 1. What causes day and night on Earth?
(a) Earth's revolution around the Sun (b) Moon's rotation (c) Earth's rotation on its axis (d) Sun's movement
- 2. In which direction does the Earth rotate?
(a) East to West (b) West to East (c) North to South (d) South to North
- 3. How long does Earth take to complete one rotation?
(a) 30 days (b) 1 year (c) 24 hours (d) 12 hours
- 4. What is the motion of the Earth around the Sun called?
(a) Rotation (b) Revolution (c) Spinning (d) Orbiting
- 5. How long does Earth take to complete one revolution?
(a) 30 days (b) 12 hours (c) 1 year (d) 24 hours

B. Fill in the blanks:

- 1. A _____ eclipse occurs when the Earth comes in between the Sun and the Moon.

2. The Earth revolves around the Sun and takes nearly _____ to complete one revolution.
3. Do not view _____ eclipse through sunglasses, binoculars, or telescopes.
4. The path an object takes while revolving around another object is called its _____.
5. The motion of an object around another object is called _____.
6. The Earth completes one rotation in about _____.
7. _____ occur because the tilt of the Earth's axis and its spherical shape .
8. _____ is known as the father of modern Indian astronomy.

C. The question below consists of an Assertion and a Reason. Use the following key to choose the appropriate answer.

- (a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
- (b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
- (c) The assertion is true, but the Reason is false.
- (d) The assertion is false, but the Reason is true.

1. **Assertion (A):** The Earth experiences different seasons during the year.

Reason (R): The Earth's axis is tilted and it revolves around the Sun.

2. **Assertion (A):** The Earth's revolution around the Sun causes day and night.

Reason (R): The Earth takes about 24 hours to complete one rotation on its axis.

D. Name the following:

1. The spinning of the Earth in its own axis is called.
 2. The movement of the Earth around the Sun is called.
 3. The natural satellite of the Earth.
 4. The _____ eclipse occurring when moon comes between the Sun and the Earth.
-