

Introduction to Light and Optics

Science · Practice Test · 15 Questions

1. What is the primary source of light for Earth?

- A) The Moon
- B) The Sun
- C) Fireflies
- D) Streetlights

2. Which material allows light to pass through it clearly?

- A) Wood
- B) Cardboard
- C) Clear glass
- D) A brick wall

3. What is created when an object blocks the path of light?

- A) A reflection
- B) A shadow
- C) A rainbow
- D) A mirror

4. Which of these objects reflects light best?

- A) A cotton shirt
- B) A wooden table
- C) A smooth mirror
- D) A sponge

5. Light travels in what kind of path?

- A) A straight line
- B) A wavy line
- C) A zig-zag
- D) A circle

6. What happens when light hits a dark, dull surface?

- A) It reflects perfectly
- B) It is mostly absorbed
- C) It turns into sound
- D) It becomes invisible

7. Which of these is a source of light?

- A) A plastic toy
- B) A lit candle
- C) A rock
- D) A metal spoon

8. What do we call materials that block all light from passing through?

- A) Transparent
- B) Translucent
- C) Opaque
- D) Shiny

9. What is the separation of white light into colours called?

- A) Reflection
- B) Dispersion
- C) Absorption
- D) Shadowing

10. Which of these is a natural light source?

- A) A flashlight
- B) A lightbulb
- C) A star
- D) A television screen

11. What happens to light when it moves from air into water and bends?

- A) Reflection
- B) Absorption
- C) Refraction
- D) Polarization

12. What do we call the colour of light that has the longest wavelength in the visible spectrum?

- A) Red
- B) Blue
- C) Violet
- D) Green

13. Which of these objects produces its own light?

- A) The Moon
- B) A mirror
- C) The Sun
- D) A diamond

14. What is the term for light bouncing off a surface?

- A) Reflection
- B) Refraction
- C) Absorption
- D) Transmission

15. Which colour is created by mixing all the colours of the visible spectrum?

- A) Black
- B) White
- C) Grey
- D) Brown