

Name: _____

Understanding light

1. What is the main source of light for Earth?
 - a. The Moon
 - b. The Sun
 - c. Stars
 - d. Fire

2. Which of the following objects is luminous?
 - a. A lit candle
 - b. A mirror
 - c. A wooden stick
 - d. A piece of paper

3. Which material allows most light to pass through it?
 - a. Wood
 - b. Metal
 - c. Glass
 - d. Brick

4. What is it called when light bounces off a surface?
 - a. Absorption
 - b. Refraction
 - c. Diffusion
 - d. Reflection

5. What happens to light when it passes from air into water?
 - a. It speeds up
 - b. It turns into sound
 - c. It disappears
 - d. It bends (refracts)

6. What happens when light passes through a translucent material?
 - a. Light is completely absorbed
 - b. All light passes through clearly
 - c. Some light passes through, but it is scattered
 - d. No light passes through

7. Which of the following is NOT a source of light?
 - a. The Sun
 - b. A flashlight
 - c. A book
 - d. A lamp

8. What do we call materials that do NOT let any light pass through?
 - a. Reflective
 - b. Translucent
 - c. Transparent
 - d. Opaque

9. What is a shadow?
 - a. A beam of colored light
 - b. A dark area where light is blocked by an object
 - c. A reflection in a mirror
 - d. A bright spot created by a lamp

10. Which device is used to split light into different colors?
 - a. A prism
 - b. A mirror
 - c. A magnet
 - d. A lens

11. When light passes through a convex lens, it:
 - a. Converges to a point
 - b. Breaks into colors
 - c. Diverges in all directions
 - d. Stops moving

12. Which of the following best describes translucent materials?
 - a. They let some light through but scatter it
 - b. They reflect all light
 - c. They let all light through clearly
 - d. They block all light

13. Why does a pencil look bent when placed in a glass of water?
 - a. Because of shadow
 - b. Because of refraction of light
 - c. Because of absorption
 - d. Because of reflection

14. What color do we see when all colors of visible light are combined?
 - a. White
 - b. Black
 - c. Red
 - d. Green

15. Which instrument helps us see objects that are very far away by collecting light?
 - a. Stethoscope
 - b. Microscope
 - c. Telescope
 - d. Periscope