

Name _____ Date _____

ReviseWise—Light

http://www.bbc.co.uk/schools/revisewise/science/physical/14_fact.shtml

Activity: Physical Processes of Light

1. A **source** of light is _____.
_____. Examples include:
_____, _____, _____, and
_____. The source of daylight is the _____.
2. Light bounces off _____ such as _____, the
_____, _____, and the
_____.
3. Light travels from a _____. We see light when it
_____.
4. The absence of light is called _____, and
_____ occur when light is blocked by something.
5. Using the diagram, put the following sentences in the correct order:
A. Light enters the eye B. We see flame
C. Candle flame gives off light D. Mirror reflects light

NEXT: Read the Fact Sheet to answer these TRUE/FALSE statements:

- _____ 6. A source makes its own light.
- _____ 7. The sun and other stars, very hot metals, and fires are sources of light.
- _____ 8. The moon is NOT a source of light. It reflects light from the sun.
- _____ 9. All planets make their own light.
- _____ 10. At night a cat's eyes become a source of light.
- _____ 11. A reflector of light such as a mirror can not be seen in complete darkness.
- _____ 12. We see light when light from a source enters our eyes.
- _____ 13. It's okay to look directly at the sun because it won't hurt your eyes at all.
- _____ 14. Fireflies and glow-worms reflect light from the moon.
- _____ 15. Light travels clearly through some transparent materials allowing you to see the source of the light.
- _____ 16. Light also travels through some translucent materials so that you can clearly see the source of the light.
- _____ 17. Light is blocked by opaque materials so that it can not travel through them at all.
- _____ 18. A shadow is formed when light is blocked.
- _____ 19. If an object moves closer to a light source, the shadow gets smaller.

NEXT: Take the test. Circle the correct answers below:

20. A man walks in a jungle on a moonless night carrying a torch. In the torchlight he sees two red eyes! Why can he see them?
- A. The eyes are sources of light.
 - B. The red eyes are reflecting the light from the torch into the man's eyes.
 - C. Light from the man's eyes reaches the two red eyes.
 - D. The red eyes are opaque making a shadow that the man sees.
21. A boy makes a drawing of a shadow of a cardboard tube placed on his desk. What is wrong with the shadow?
- A. It is too dark
 - B. It is the wrong shape.
 - C. It should be connected to the tube.
 - D. No shadow would be made.
22. A girl makes a drawing of one side of her head. What mistake has she made?
- A. There would be no hairs seen in the shadow.
 - B. Her ears are not drawn.
 - C. You would not see her eyelashes.
 - D. You would not see her eyes in detail.
23. Which of the following is NOT a source of light?
- A. the moon
 - B. a glow-worm
 - C. a star
 - D. car headlamp
24. Which of the following shows the correct way light travels from a candle flame to our eyes?
- A. Picture A
 - B. Picture B
 - C. Picture C
 - D. Picture D
25. Some planets do make their own light. Which of the following could NOT be a source of light on a planet?
- A. a cold, shiny rock surface
 - B. lightning
 - C. red hot lava from a volcano
 - D. a rocket flame when taking off

Dazzling Data: Circle SIX things that have been put in the wrong column:

Light Source	Reflector
Moon	Mirror
Star	Torch
Sun	Diamond
Gold ring	Table lamp
Fireworks	Candle
Bottle	Window