

Name _____

Date _____ Per _____

Bill Nye: Light Optics

1. Without _____, you wouldn't see yourself.
2. Light can be _____, _____, or _____.
3. You see light _____ off things.
4. Light bounces straight _____ and straight _____. This is _____.
5. Light can travel through things like _____, but if it is curved, it _____ or bends the light.
6. When light is reflected or refracted, it changes _____.
7. Light travels in a _____ unless it hits something.
8. Light travels in _____.
9. The way a lens is curved affects how it _____ light.
10. If a lens is curved in, it is called _____. Things look _____ and _____.
11. If the sides of a lens are curved out, it is _____. Things look _____.
12. You have _____ lenses in your eyes.
13. Light in a mirror is _____ off the object, then the mirror, and then it enters your _____.
14. When a mirror is _____, it bends the light.
15. If you aim for something underwater, you miss because of _____.
16. When light enters something, it _____ a little bit and _____ direction.
17. The beams come together at the _____ point.
18. Fiber _____ is how we receive phone calls.
19. Infrared light is _____.

Bill Nye: Light Optics

1. Without reflection, you wouldn't see yourself.
2. Light can be bent, absorbed, or reflected.
3. You see light bouncing off things.
4. Light bounces straight on and straight off. This is reflection.
5. Light can travel through things like windows, or glass, but if it is curved, it refracts or bends the light.
6. When light is reflected or refracted, it changes directions.
7. Light travels in a straight line unless it hits something.
8. Light travels in waves.
9. The way a lens is curved affects how it bends light.
10. If a lens is curved in, it is called concave. Things look smaller and farther away.
11. If the sides of a lens are curved out, it is convex. Things look bigger.
12. You have convex lenses in your eyes.
13. Light in a mirror is bounced off the object, then the mirror, and then it enters your eye.
14. When a mirror is curved, it bends the light.
15. If you aim for something underwater, you miss because of refraction.
16. When light enters something, it slows down a little bit and changes direction.
17. The beams come together at the focal point.
18. Fiber optics is how we receive phone calls.
19. Infrared light is heat.