

Name \_\_\_\_\_

Date \_\_\_\_\_

### Bill Nye: Light and Color

1. White light is a mixture of all the \_\_\_\_\_.
2. Without different colors of light we couldn't see different \_\_\_\_\_ of things.
3. All the colors of the rainbow are called the full \_\_\_\_\_ of color.
4. List the colors of the rainbow in order.
5. Each color is its own \_\_\_\_\_.
6. Red and blue make \_\_\_\_\_.
7. Yellow and red make \_\_\_\_\_.
8. Yellow and blue make \_\_\_\_\_.
9. All the colors mixed together make \_\_\_\_\_.
10. Why is an apple green?
11. We don't see \_\_\_\_\_; we see \_\_\_\_\_ bouncing off things.
12. The colors that aren't reflected are \_\_\_\_\_ and changed to \_\_\_\_\_.
13. Mixing the colors of light gives you \_\_\_\_\_ light.
14. \_\_\_\_\_ are beams of very intense light.
15. The smoke at dance parties is so that the light has something to \_\_\_\_\_.
16. The color of an object is the \_\_\_\_\_ of the light it \_\_\_\_\_.
17. Black colors absorb all colors and converts them to \_\_\_\_\_.
18. White helps you stay \_\_\_\_\_ because it reflects \_\_\_\_\_.
19. \_\_\_\_\_ and \_\_\_\_\_ are primary colors of light.
20. \_\_\_\_\_ light is long slow waves; \_\_\_\_\_ light is short, fast waves.
21. \_\_\_\_\_ light is scattered a lot more than \_\_\_\_\_ light in the sky so we see more of it and it makes the sky look blue.
22. Why is water blue?
23. White objects \_\_\_\_\_ all colors; black object \_\_\_\_\_ all colors.