Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hr. \_\_

**Bill Nye: Light and Color**

1. White light is a mixture of all of 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 + Blue = \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. Yellow + Red = \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. Yellow + Blue = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. All of the colors mixed together make \_\_\_\_\_\_\_\_\_\_\_\_\_.
10. Why is a green apple green?
11. We don’t see \_\_\_\_\_\_\_\_\_\_\_\_\_, we see \_\_\_\_\_\_\_\_\_\_ bouncing off things.
12. The colors that aren’t reflected are \_\_\_\_\_\_\_\_\_\_\_\_ and change 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 light has something to \_\_\_\_\_\_\_\_\_\_\_.
16. The color of an object is \_\_\_\_\_\_\_\_\_\_ of the light it \_\_\_\_\_\_\_\_\_\_\_.
17. Black colors absorb all colors and convert 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. Why is water blue?
22. \_\_\_\_\_\_\_\_\_\_\_\_\_ light is scattered a lot more than \_\_\_\_\_\_\_\_\_\_ light in the sky, so we see more of it and it makes the sky look blue.
23. White objects \_\_\_\_\_\_\_\_\_\_\_\_ all colors.
24. Black objects \_\_\_\_\_\_\_\_\_\_\_\_\_ all colors.