

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_ Score out of 25 \_\_\_\_\_

Corrected by \_\_\_\_\_

## Bill Nye: Light and Color Video Quiz

**Circle the correct work of phrase to make the sentence correct.**

1. Without different TYPES/ COLORS of light we would not be able to see different colors of things.
2. The colors of the rainbow CAN / CAN'T be broken down or separated further.
3. The PHOTONS / CHEMICALS in the skins of fruits and vegetables absorb & reflect light to make them look different colors.
4. What color(s) is (are) being absorbed by a blueberry? \_\_\_\_\_
5. What color(s) is (are) being reflected by a blade of grass? \_\_\_\_\_
6. Black is seen when light is almost completely ABSORBED / REFLECTED. The energy is then hanged to HEAT / COLOR.
7. Mixing colors of paint gives you the same result as mixing colors of light. Circle True or False
8. A LASER / SPECTRUM is a very intense beam of light.
9. A laser of MANY / A FEW watts is strong enough to burn a pencil!
10. The color of an object is the color it ABSORBS / REFLECTS.
11. Bill Nye quotes: "Inertia is a property of matter." Can light have inertia? Why or why not?  
\_\_\_\_\_

12. The color RED / BLUE has long wavelengths while RED / BLUE has short wavelengths.
13. Our sky appears blue because the atmosphere ABSORBS / SCATTERS more blue light than any other color.

**True or False? Circle True or False**

14. White light has no color. True or False
15. A prism is used to put all colors of light back together. True or False
16. Each color of the rainbow can be broken up into other colors using a prism. True or False
17. An orange looks orange because the chemicals in its skin absorb orange light. True or False
18. Much of the light that a black cloth absorbs is changed to heat. True or False
19. The light from a laser must be reflected before we can see it. True or False
20. Different colors of light from the sun have different wave lengths. True or False

**Multiple Choice: Circle the letter of the best answer**

21. When we see things, what we are really seeing is:
  - a. The light being absorbed by things
  - b. The light being refracted by things
  - c. The light being reflected from things
  - d. None of these.
22. Which of the following is not a primary color of light?
  - a. Red
  - b. Yellow
  - c. Green
  - d. Blue
23. Which of the following statements describes why the sky is blue: The sky is blue:
  - a. Because blue light is scattered more by air molecules than red light.
  - b. Because blue light can shine through air molecules more easily than red light.
  - c. Because blue light is absorbed by air molecules more than red light.
  - d. For none of the above reasons.