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.