

SCA Science 5 – Study Guide

Chapter 10

Name: _____

I. Fill in the Blank: Write the correct answer in the blank

- _____ 1. The first thing that God created was _____.
- _____ 2. Light is an _____ wave.
- _____ 3. Light waves can travel through both matter and empty _____.
- _____ 4. Light waves travel _____ than sound waves do.
- _____ 5. Waves that move perpendicular to the way that matter is moving are called _____ waves.
- _____ 6. Light generally travels in a _____ line.
- _____ 7. When all of the colors of light are reflected, you see _____.
- _____ 8. When all of the colors of light are absorbed, you see _____.
- _____ 9. The primary colors of light are red, _____, and green.
- _____ 10. The primary colors of light can be used to make all of the other _____ of light.
- _____ 11. Opaque substances that are used to color other materials are called _____.
- _____ 12. Any surface that can reflect light to form an image of an object is a _____.
- _____ 13. When light shines onto a smooth surface, the light bounces off in the _____ direction.

- _____ 14. When light bounces off a rough surface it goes in _____ directions.
- _____ 15. A surface that curves inward and makes things look close to it look larger is _____.
- _____ 16. A surface that curves outward and makes things look smaller is _____.

II. Multiple Choice: Write the letter of the correct answer in the blank.

- _____ 17. The distance between two crests or two troughs of a transverse wave is its _____.
A. frequency B. wavelength C. amplitude
- _____ 18. The height of a wave is the _____.
A. frequency B. wavelength C. amplitude
- _____ 19. The number of waves that pass a certain point in one second is called the _____.
A. frequency B. speed C. amplitude
- _____ 20. The distance that one wave travels in one second is the _____.
A. frequency B. speed C. amplitude
- _____ 21. Light cannot pass through _____ objects.
A. transparent B. opaque C. translucent

III. True – False: Write “T” for True or “F” for False.

- _____ 22. The different colors of light that can be seen are called the visible spectrum.
- _____ 23. The bending of light as it passes from one medium into another is reflection.
- _____ 24. The colors in the visible spectrum are in order by their frequencies.
- _____ 25. The colors of the visible spectrum are red, orange, yellow, green, blue, indigo, and violet.
- _____ 26. The color you see depends on which colors of light are reflected and which are absorbed.
- _____ 27. A lens is a piece of glass or other transparent object that refracts light and produces an image.
- _____ 28. Light is the only electromagnetic wave that is visible to the human eye.
- _____ 29. Light always travels at the same speed in all mediums.
- _____ 30. Radar and cellular phones use microwaves.