Name Period Date

12. I'm the production of light by living organisms.
bioluminescence

13. I'm a tool that uses refraction to separate the wavelengths that make up white light.
prism

14. I'm the EM waves that are used in radar and cell phones.
microwaves

15. I'm the filtering of light so that all of its waves vibrate in the same direction.
polarization

16. I'm the disappearance of a wave into a medium.
absorption

17. Because of my higher energies, I'm the waves that can damage tissue and burn skin.
ultraviolet light, x-rays, gamma rays

18. I'm the production of light without high temperatures.
luminescence

19. I occur when a material absorbs EM radiation of one wavelength and gives off EM radiation of a different wavelength.
fluorescence

20. I'm the range of frequencies that includes radio waves, microwaves, infrared light, visible light, ultraviolet light, x-rays, and gamma rays.
electromagnetic spectrum

21. I'm the production of light from high temperatures.
incandescence

B. EXAMPLES AND USES

On the line, write the vocabulary word that matches the examples and uses.

22. air traffic control, viewing weather conditions, cooking microwaves
23. red, blue, and green primary colors (light)
24. sterilizing medical instruments, production of vitamin D ultraviolet light
25. warmth from fire or radiator, lamps, toasters infrared rays/light
26. diagnosing bone fractures, finding tumors x-rays
27. makes the sky blue scattering
28. cyan, yellow, and magenta primary pigments
29. AM, FM, and broadcast television signals radio waves