

Physical Principles in Living Systems

Name:

Spectrum Shuffle

Period:

Write the name of the correct type of wave or term next to each description. Some terms will be used more than once. You can use Chapter 3, Section 1 to help you. Figure 2 will be especially helpful.

- _____ 1. distance from any point on a wave to an identical point on the next wave
- _____ 2. all the frequencies or wavelengths of electromagnetic radiation
- _____ 3. wave that, in large doses, can cause skin cancer and cataracts
- _____ 4. wave that is usually experienced as heat
- _____ 5. wave that is given off by the human body
- _____ 6. wave that is given off by a regular light bulb
- _____ 7. wave that is used to heat food
- _____ 8. wave that includes the waves that our eyes see as different colors
- _____ 9. wave that is used to make pictures of bones
- _____ 10. wave that is mostly blocked from Earth by the ozone layer
- _____ 11. wave that has wavelengths that range from about 10^{-3} to 10^{-6} m
- _____ 12. wave that has wavelengths that are around 10^{-7} m
- _____ 13. wave that consists of electric and magnetic fields

electromagnetic spectrum

electromagnetic wave

infrared wave infrared wave infrared wave

microwave

ultraviolet light ultraviolet light ultraviolet light

visible light visible light

wavelength

X ray



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