

Name: _____

Date: _____

Transfer of Thermal

Energy Worksheets

1. Radiation is energy that travels in waves. The intensity of the energy depends on the size or amplitude and frequency of the waves. Look at the poster "the Electromagnetic Spectrum" on the board.

a. What is the range of wavelengths for visible light?

b. What is the range of frequencies of visible light?

c. Infrared?

Wavelength: _____

Frequency: _____

d. Ultraviolet?

Wavelength: _____

Frequency: _____

e. X-rays?

Wavelength: _____

Frequency: _____

2. How is energy transferred during convection?

3. What type of substances does conduction work best in? In other words what substances are good conductors?

4. What two features of Earth protect us from some of the sun's harmful radiation?

5. An insulator is something that prevents or slows the transfer of heat. List three insulators.
