

## SCIENCE 10 – ELECTROMAGNETIC SPECTRUM WORKSHEET

Vocabulary			
A. Electromagnetic spectrum	C. Gamma rays	E. Radio waves	G. Visible light
B. Frequency	D. Infrared waves	F. Ultraviolet rays	

- 1) The \_\_\_\_\_ represents the different forms of electromagnetic radiation.
- 2) \_\_\_\_\_ is the only type of radiation that humans can see.
- 3) Heat radiation, also known as \_\_\_\_\_, cannot be seen by your eyes but can be felt by your skin.
- 4) \_\_\_\_\_ have the lowest frequency in the spectrum, and are used in satellite transmissions and heating food.
- 5) Because \_\_\_\_\_ have the highest energy of all electromagnetic radiation, they are the most damaging to human tissue.
- 6) Compared to all other types of electromagnetic radiation, radio waves have the lowest \_\_\_\_\_.
- 7) An overexposure to \_\_\_\_\_ can result in sunburns and skin cancer.

Match the kind of **Electromagnetic Radiation** (on the left) likely to be used in each of the following **technologies** (on the right). Each Technology may be used only once

Electromagnetic Radiation		Technology	
	X rays	A.	TV broadcast signals (satellite transmissions)
	Visible light	B.	In a hospital to keep surgical equipment sterile
	Gamma rays	C.	Examining the inside of the body.
	Radio waves	D.	Thermal Imaging devices
	Infrared waves	E.	Light Bulb
	Ultraviolet waves	F.	Used by an oncologist (a physician who studies and treats cancer)

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