

Name _____

Chemistry-A Unit 3

Electromagnetic Spectrum Worksheet

1. In each of the following pairs, circle the form of radiation with the LONGER wavelength.

- a. red light or blue light
- b. microwaves or radiowaves
- c. infrared radiation or red light
- d. gamma rays or UV radiation

2. In each of the following pairs, circle the form of radiation with the GREATER frequency.

- a. yellow light or green light
- b. x-rays or gamma rays
- c. UV radiation or violet light
- d. AM radio waves or FM radio waves

3. In each of the following pairs, circle the form of radiation with the LOWER energy.

- a. red light or blue light
- b. microwaves or radiowaves
- c. infrared radiation or red light
- d. gamma rays or UV radiation
- e. yellow light or green light
- f. x-rays or gamma rays
- g. UV radiation or violet light
- h. AM radio waves or FM radio waves

4. What are 2 characteristics that differentiate types of electromagnetic radiation? _____ & _____

5. Name 1 characteristic that all electromagnetic radiation have in common. _____

6. What is the speed of x-rays? _____

7. What is the speed of gamma rays? _____