

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? \_\_\_\_\_