

## Mix and Match - Optics Terminology

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Fill in the blank with the letter next to the word that best completes the sentence.

- \_\_\_\_\_ are a type of electromagnetic radiation that make it possible to see through your body. a. Fluorescence
- \_\_\_\_\_ rays are the most energetic type of electromagnetic radiation and can be very dangerous. b. Visible
- \_\_\_\_\_ light is the range of electromagnetic radiation that is able to create nervous stimulation in the retina of your eye. c. Radiowaves
- \_\_\_\_\_ radiation is more energetic than the violet end of the light spectrum and will cause sunburns. d. Incandescent
- \_\_\_\_\_ are a type of electromagnetic radiation that can be used for communication and for heating food. e. Phosphorescence
- \_\_\_\_\_ radiation is a term used to describe any and all different types of radiation that travel in photons. f. X-rays
- \_\_\_\_\_ radiation is less energetic than the red end of the visible spectrum and is a common way in which heat energy can be released by warm objects. g. Electromagnetic
- \_\_\_\_\_ is an example of chemiluminescence that occurs in a living organism. h. Infrared
- \_\_\_\_\_ occurs when light is absorbed by a particular chemical compound and then quickly given off as visible light at a different colour. This process is nearly instantaneous. i. Gamma
- \_\_\_\_\_ light sources are objects that produce light because they are hot. The colour of light will depend on the temperature of the object. j. Ultraviolet
- \_\_\_\_\_ are the longest and least energetic type of electromagnetic radiation. k. Microwaves
- \_\_\_\_\_ is a chemical process that releases light without being hot. Cool chemical light. l. Bioluminescence
- \_\_\_\_\_ is similar to fluorescence except it occurs much slower and lasts longer. m. Chemiluminescence