

Mix and Match - Optics Terminology

Name: _____ Class: _____ Date: _____

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

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