



**Close Reading Notes:** Fill in the missing blanks in the notes below using the word bank.

electromagnetic, x-ray, ultraviolet, red, orange, blue, microwave, green, violet, indigo, yellow, radio, infrared

The electromagnetic spectrum is made up of the different wavelengths of electromagnetic energy. The sun is the major source of \_\_\_\_\_ energy in our solar system. The nuclear reactions taking place in the sun give off incredible amounts of energy which includes radiation of many different wavelengths and each type of radiation has unique properties.

**Gamma ray** radiation is very dangerous because it carries very high levels of energy. Luckily for us the layers of the atmosphere block most of this type of radiation. The main sources of gamma ray radiation on earth are man-made nuclear weapons and nuclear plant meltdowns or gamma radiation that is used by doctors to treat some cancers.

\_\_\_\_\_, \_\_\_\_\_ radiation is the next shortest wavelength in the EM spectrum. This type of radiation has a lot of energy too and can be dangerous if humans are exposed to a lot of x-rays in their life. This radiation type is very helpful to medicine because it allows us to treat broken bones and to see cavities in teeth.

Next on the spectrum comes \_\_\_\_\_ radiation. This type of radiation has a wavelength that is still pretty short. It is another type of dangerous radiation, it can cause sunburn and skin cancer. Our ozone layer blocks out some but not all of the ultra violet radiation coming from the sun. This type of radiation is invisible to us, but many insects including bees can see it.

**Visible light** is the type of electromagnetic radiation that we are the most familiar with. This type of radiation is the one we can detect with our sense of sight. The rainbow colors that make up the visible light wavelengths are:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

The color of visible radiation with the shortest wavelength is violet (purple). Red has the longest wavelength of all the colors and so it is considered to be the color with the least energy.

# Cloze Ing In On Science Answers Electromagnetic Spectrum

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