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# Electromagnetic Spectrum Activity Answer Key

**critical thinking activity: the electromagnetic spectrum** - critical thinking activity: the electromagnetic spectrum there are many kinds of energy in the universe. the energy given off from the sun is radiant energy, scientifically called electromagnetic radiation. produced by nuclear reactions at the core of the sun, this energy streams from the surface of the sun in waves of different lengths. **activity 6 the electromagnetic spectrum and your community** - in this activity you will: • explain electromagnetic radiation and the electromagnetic spectrum in terms of wavelength, speed, and energy. • investigate the different instruments astronomers use to detect different wavelengths in the electromagnetic spectrum. • understand that the atoms of each of the chemical elements have a unique ... **online electromagnetic spectrum activity - abss.k12** - online electromagnetic spectrum activity name: \_\_\_pd: \_\_\_ directions: follow the links found in each of the activities listed below to complete the activities. **the electromagnetic spectrum - t e harrington middle school** - the order they fit into the electromagnetic spectrum all of these are "electromagnetic waves". this means that although they appear to be very different, in fact they're all made of the same kind of vibrations - but at different . all electromagnetic waves travel at the same speed - 300,000,000 metres per second, which is the speed of light. **unit 2 the electromagnetic spectrum - nasa** - and wavelength in the electromagnetic spectrum. teaching strategy because of the complex apparatus required to study some of the wavelengths of the electromagnetic spectrum and the danger of some of the radiation, only the visible light spectrum will be studied in the activities that follow. several different methods for **introduction to the electromagnetic spectrum** - the electromagnetic spectrum introduction-visible light 1 instructor's guide to lab no. 1: the visible electromagnetic spectrum goal the goal is to introduce the visible electromagnetic spectrum to students through use of materials readily available to most high school science classes. objectives **waves & electromagnetic spectrum worksheet** - waves & electromagnetic spectrum worksheet directions: use the word bank to answer the following questions. each word will be used only once. crest frequency mechanical infrared trough transverse radio gamma wavelength longitudinal ultraviolet x-rays visible light amplitude electromagnetic **the electromagnetic spectrum - lee.k12** - this is called the electromagnetic spectrum. 5 the longer the wavelength, the less energy the em carries. visible light is just a very small portion of electromagnetic energy. visible light comes in these colors: violet, indigo, blue, green, yellow, orange, and red. red has the longest wavelength of visible light, so it has the lowest energy. **8th grade science waves unit information** - in the electromagnetic spectrum - this activity might be more suitable for acceleration or a sponge activity for additional resources. creating the model might take longer time than needed when the concepts can easily be seen through interactives video clips (note: showing all video clips is not required nor **the electromagnetic spectrum - western reserve public media** - electromagnetic spectrum formative assessment demonstrate that electromagnetic radiation is a form of energy. recognize that light acts as a wave. show that visible light is a part of the electromagnetic spectrum (e.g., radiowaves, microwaves, infrared, visible light, ultraviolet, x-rays and gamma rays). the electromagnetic spectrum 3 **a room with a view electromagnetic spectrum** - a room with a view electromagnetic spectrum teacher sheets pre-activity instructions • imagers electromagnetic spectrum web site - preview the electromagnetic spectrum web site the day before teaching this lesson. find objects to represent different electro-magnetic energy, i.e. pocket radio, microwave popcorn, remote control, etc... **online electromagnetic spectrum activity - rcboe** - online electromagnetic spectrum activity look at the emission spectrum for the sun and the emission spectrum of hydrogen 20. what do you notice about the two? 21. label the 7 colors of the rainbow on the light spectrum below from looking at the webpage. **activity: wavelength and energy - nasa** - quency electromagnetic waves in medical diagnosis. • make an overhead projector transparency of the spectrum chart on page 00. ask the stu-dents to relate energy to the electromagnetic wavelengths depicted. national aeronautics 48 and space administration  $e = hf$   $\lambda$  is the wavelength in meters  $e = hc f$  is the frequency in hertz **our primary objective for this project is to create a lab ...** - lab activity for future physical science students, providing tactile application and experimentation with the concepts of light, color, and the electromagnetic spectrum. •student learning objective: -students shall demonstrate an understanding of terms such as:

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