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radio waves a infrared rays d ultraviolet waves b radar e false gamma rays have more energy than xrays false communicating with satellites is an application of radio waves study with quizlet and memorize flashcards containing terms like 1 2 3 and more define the electromagnetic spectrum and describe it in terms of frequencies and wavelengths describe and explain the differences and similarities of each section of the electromagnetic spectrum and the applications of radiation from those sections the electromagnetic spectrum is the full range of electromagnetic radiation organized by frequency or wavelength the spectrum is divided into separate bands with different names for the electromagnetic waves within each band electromagnetic waves can be classified and arranged according to their various wavelengths frequencies this classification is known as the electromagnetic spectrum the following table shows us this spectrum which consists of all the types of electromagnetic radiation that exist in our universe what is electromagnetic energy electromagnetic energy travels in waves and spans a broad spectrum from very long radio waves to very short gamma rays the human eye can only detect only a small portion of this spectrum called visible light electromagnetic spectrum the entire distribution of electromagnetic radiation according to frequency or wavelength although all electromagnetic waves travel at the speed of light in a vacuum they do so at a wide range of frequencies wavelengths and photon energies the electromagnetic spectrum is the continuous spectrum of electromagnetic radiation it covers an enormous frequency range from about 1 hertz hz at the extreme low end to over 10^{25} hz at the high end with no gaps in the frequency range what is the electromagnetic spectrum the electromagnetic spectrum describes all of the kinds of light including those the human eye cannot see in fact most of the light in the universe is invisible to our eyes learn how electromagnetic waves are formed from changing electric and magnetic fields understand the electromagnetic spectrum including different regions from visible light to gamma rays and their uses created by david santopietro each section of the electromagnetic em spectrum has characteristic energy levels wavelengths and frequencies the electromagnetic spectrum includes energy from long wavelengths radio waves through visible light all the way to short wavelength x rays and gamma waves em spectrum physics answer key the electromagnetic spectrum answer key gamma rays wavelength 10 pm discovered in 1900 by paul villard produced by nuclear fission fusion and decay gamma ray astronomy started in late 1960 early 1970 with the vela satellite was used to detect suspected nuclear bombs detonated from space during the electromagnetic spectrum is a range of frequencies wavelengths and photon energies covering frequencies from below 1 hertz to above 10^{25} hz corresponding to wavelengths which are a few kilometres to a fraction of the size of an atomic nucleus in the spectrum of electromagnetic waves comparison of wavelength frequency and energy for the electromagnetic spectrum credit nasa s imagine the universe the short answer is that scientists don't like to use numbers any bigger or smaller than they have to study with quizlet and memorize flashcards containing terms like electromagnetic spectrum visible light electromagnetic wave and more how do the electromagnetic waves for the different kinds of electromagnetic radiation differ answer they fall into different ranges of wavelength and therefore also different corresponding ranges of frequency electromagnetic spectrum the electromagnetic spectrum showing the major categories of electromagnetic waves the range of frequencies and wavelengths is remarkable the dividing line between some categories is distinct whereas other categories overlap 1 which of the following statements about electromagnetic waves is true electromagnetic waves can travel through empty space electromagnetic waves can only travel through air or water all electromagnetic spectrum quiz which of the following is correct in order of lowest to highest energy the photons that make up radio waves travel at the same speed as the photons that make up visible light the electromagnetic spectrum can be expressed in terms of energy wavelength or frequency low energy photons are waves science astronomy 109 unit 1 5 0 1 review get a hint what is the meaning of the letters rivuxg that appear under some of the figures in this chapter click the card to flip they are portions of the spectrum of electromagnetic radiation radio infrared visible ultraviolet x ray gamma ray click the card to flip 1 159 flashcards created date 11 30 2017 11 25 43 am

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