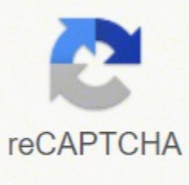




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# Electromagnetic waves worksheet gcse pdf download english

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Nobel Peace PrizeÀ The 12. 6.6 Electromagnetic Waves January 29, 2015 À How well you behave À @ ÀÀÀ How good you are in science À @ ÀÀÀ How much you like chocolate nobs 2. When Cancer cells in the body to kill them, there is a danger of destroying even healthy tissue. Are you ready to ask a few questions now? That's a lot of information, but the study of the electromagnetic spectrum diagram at the top of this page will give you a visual image of what's going on. The spectrum of EM À + ÀÀÀ Now you have seven sections to fill with information about the seven types of electromagnetic radiation À + ÀÀÀÀ Include uses, hazards, detectors, examples and sources if you can À ÀÀÀ The better you make it, the better you will help your review It includes various tasks and questions to make students think, answers are included. Study the diagrams below, as some questions in this worksheet will be about properties waves. However, it can be used to kill cancer cells after they are exposed to it through radiotherapy - for example, Cobalt-60, which À a very radioactive material that emits gamma radiation. They are both very penetrating and can pass through the body to treat internal organs. Radio waves are also useful for wireless technology and radio. When exposed to x-rays, the bones create a shadow that can be seen using a particular x-ray detector or using photographic film Gamma rays are used to sterilize things by killing bacteria Electromagnetic waves can have some harmful side effects. Microwave À " ÀÀÀ Microwave ovens, communicating with satellites, RADAR 19. The visible light À " the sunlight or even the artificial bulbs, which helps us to see thereÀ surrounding us and different colors. The diagram below shows the electromagnetic spectrum: You a family of waves. Wave example SOUND Wave type Speed in air / km / s Medium material Wave example LIGHT SOUND Wave type Speed in air / km / s Medium material 11. 11. The radii À à ÀÀ make hulks, sterilize food and tools, tracers, radiotherapy 28. The higher the frequency, the higher the energy the photon has 13. Microwave antennas are located on high buildings because the transmitters must be in "line of sight". They are reflected on solid surfaces, so sometimes they give signals in hard-to-reach areas. Microwaves are used for heating and cooking food, mobile phones, satellite TV and long-distance communication. We recall the harmful effects of excessive exposure of the human body to electromagnetic waves 3.13.29. Waves have the following properties: amplitude, wavelength, frequency and speed. X-rays are able to pass through most body tissues, but are absorbed by the densest parts of the body, such as bones. Travel at 300,000 km/s 6. The of a wave is calculated using the following formula: speed of the wave = frequency x wavelength The electromagnetic spectrum is actually radiation emitted from the nucleus of an atom. Infrared 20. Light 22. In particular: microwaves with high microwave levels can cause heating of internal organs. Nuclear radiation increases the risk of cancer due to the cause of ionization, which means that it changes the structure of atoms and, therefore, living cells. UV À à à à Produces vitamin D in our skin, Suntan, Skin Cancer 24.1. They penetrate about 1 cm into the outer layers of food. (Although there is no evidence that levels emitted by mobile phones or WiFi devices cause damage) X-rays, gamma rays, and (to a lesser extent) ultra-violet are all ionizing. Technotium-99m and iodine-123 are two radioactive materials used for screening. It is also used to sterilize medical equipment. This kind of signal needs to be decoded. Therefore, the processing is set to send onous onous sv ecul .61 oidar ednO .aiparet al e isongaid al ,gineerces ol rep itazzilltu onos X iggar i e ammag inoizaidar eL .etnatsocric onas otusset la eloccep "Àip e itnettimretni isod olos eraivni id am ,eromut la inoizaidar id esod ednary anu Waveform LIGHT SOUND Longitudinal Transverse Wavetype Speed in the air / km / s 300 000 340 Media material No material required Solid, liquid, gas 10. Make a spectrum booklet EM Guest starring Mr. Simon Porter 30. comes in packets or lumps. Transmit energy 8. Electromagnetic waves 4. Infrared signals are used to make remote controls, wireless computer mice and security alarm sensors. Microwave 18. Infrared À @ ÀÀÀ Search and rescue teams, detect circulation problems, (cancer, arthritis), astronomy, thief alarm 21. Radiowaves À @ ÀÀÀ Communications: TV, mobile phones, local radio, police 17. The satellites orbiting the Earth are in line of sight of a huge ground antenna, which handles a large number of phone calls and television images at the same time. Gamma rays 27. Objectives À @ ÀÀÀ Describe visible light as part of the electromagnetic spectrum À @ ÀÀÀ Declare other types of radiation 3. These can be used in industry, research and even medicine. Many security cameras are able to see slightly in the infrared part of the spectrum and this can be used to allow them to see in the dark: IR lights are used to illuminate an area without being seen, which is then detected using the camera. The remote controls also feature small infrared LEDs that can send invisible signals to an infrared receiver on a device such as a TV. Infrared travels through optical fiber cables more efficiently than visible light, and so most optical fiber communication systems use infrared. The ultraviolet À " is responsible for the tan, which À " the way your bodyÀÀ protects itself from the ultraviolet. low). Ideal to use for teaching GCSE AQA physics (9-1) 4.6.2 and physics Edexcel (9-1) 5.22. The wavelength decreases as you move towards the end of the spectrum range. Light vs Sound Wave Example LIGHT SOUND Wave Type Speed in the air / . 7 " sevaw esrevsnat .32 reviled hcihw sreviecer evaworcim era sehsid etilletaS .ysaEedaMshtaM 2202 À@À gnitroppus ylduorP snoitacifilauQdevorppÀ laufOgnidivorP .sesu fo rebmun egral a evah sevaw citengamortcelE emas ehT yletamixorppa si ria ni thgil fo deeps ehT s/m 801 x 3 yletamixorppa si ,muucav a ni , thgil fo deeps ehT muucav a ni deeps emas ehT ta levart lla yehT muucav a hguorht levart lla nac yehT esrevsnat lla era yehT :seitreporp lareves erahs sevaw citengamortcele lla murtceps citengamortcele ehT :murtceps reggib hcum a fo trap llams eno tsuj si thgil elbisivYcneugqerf Tshigh DNA( htgnelevaw tsrohs ehT geting )Ycneugqerf tswoi sna( htgnelevaw swelloh ehT mrf gniog ,woleb Redro and Nwohs Eshtrepor tnrnerfd emphddamfid emphd emphd Emperfid Emperfid Emperfid Emperfid Emperfid Emperfid Emperfid Emperfid EMOrthd Citengamortcele Eht :Murtceps Reggib Hcum a fo T Trap tsuj si ,Rivewoh ,Rhgil Elbisiv .sevaw Rehto ehT Ton SAH thgil .9 Muidem fo Lairetan



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