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Electromagnetic spectrume worksheet

Electromagnetic spectrum frequency (cycles) 104 105 106 107 108 109 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 | | | | | | | | | | | | | | | | | Radio waves | Infrared | | Ultraviolet radiation | X-rays | | Long length | Short | Television | Microwave ovens | ^ ^ | waves | waves | | _ | | | | Visible gamma rays of light The diagram below shows the electromagnetic spectrum: It is a family of waves. Waves have the following properties: width, wavelength, frequency and speed. Review the following diagrams, as some questions in this worksheet will be about wave properties. The speed of a wave is calculated using the following formula: wave speed = frequency x wavelength The electromagnetic spectrum is actually radiation emitted from a person's core. The wavelength decreases as we head towards the gamma ray end of the spectrum. Gamma radiation and X-rays are used for control, diagnosis and treatment. They are both very penetrating and can pass through the body to treat internal organs. Nuclear radiation increases the risk of cancer due to ionization, which means that it changes the structure of atoms and, therefore, living cells. However, it can be used to kill cancer cells after being exposed to them through radiotherapy - for example, Cobalt-60, which is a highly radioactive material that emits gamma radiation. It is also used for sterilization of medical equipment. When they expose cancer cells to the body to kill them, there is a risk of destruction and healthy tissue. Therefore, the treatment is regulated in such a way that a large dose of radiation is constantly sent to the tumor, but only sends smaller doses in the surrounding healthy tissue. Technium-99m and iodine-123 are two radioactive materials used for control. Microwaves are used for heating and cooking food, mobile phones, satellite TV and long-distance communication. They penetrate about 1 cm into the outer layers of food. Microwave antennas are located in high buildings because transmitters and receivers must be in visual contact. Satellite dishes are microwave receivers that provide satellite TV channels. Satellites orbiting the Earth are in visual contact with a huge antenna on the ground, which handles a large number of phone calls and television images simultaneously. Infrared signals are used to make remote controls, wireless computer mice and security alarm sensors. Radio waves are also useful for wireless technology and radio. They are reflected by solid surfaces, so sometimes they provide signals in inaccessible areas. Light has many uses, including communication, and can be sent with just a torch. This type of signal needs to be decoded. Visible light is light from the Sun or even artificial light bulbs, which helps us see what is around us and different colors. We can only see the visible part of the electromagnetic spectrum, not the other waves. This is too much information to take, but studying the diagram of the electromagnetic spectrum at the top of this page will give you a visual picture of what's going on. Are you ready to have a go at a few questions now? Nwo?

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