

The electromagnetic spectrum

Select the correct answer from the text below each question:

- Gamma rays travel faster than visible light.
true false
- All electromagnetic waves travel at the same speed in a vacuum.
true false
- The speed of light in a vacuum is...
31 ms⁻¹ 300 ms⁻¹ 300,000,000 ms⁻¹ infinite
- White light is a mixture of colours that can be split into the visible spectrum by a ...
rainbow prison migraine prism
- Which of the following has the highest frequency?
ultraviolet microwaves x-rays radiowaves
- Which of the following has the highest frequency?
visible light microwaves infrared radiowaves
- Which of the following has the longest wavelength?
gamma rays visible light ultraviolet radiowaves
- Which of the following has the shortest wavelength?
gamma rays visible light ultraviolet radiowaves
- Which of the following has the lowest frequency?
ultraviolet microwaves radiowaves x-rays
- These waves have the longest wavelength and are used to carry signals for radar, TV and radio
radiowaves ultraviolet microwaves infrared
- These rays are absorbed by bones and teeth but pass through flesh
radiowaves x-rays visible light infrared
- These waves are used to cook food (they are absorbed by water molecules in the food)
gamma rays x-rays micro-waves ultraviolet
- Our eyes are able to see waves in this part of the electromagnetic spectrum
ultraviolet radio visible infrared
- Any warm object emits this wave. Night vision cameras are able to detect this type of wave.
gamma rays visible light microwaves infrared
- These rays are emitted by the sun (and other white hot objects). Over-exposure to these rays can burn the skin and cause skin cancer.
gamma rays ultraviolet microwaves infrared

Use the "The electromagnetic spectrum: bounce quiz" at the eChalk website to help you answer these questions.

Brainpop Electromagnetic Spectrum Activity Answers

IM Harris



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