Lesson Plan

Electromagnetic Spectrum and Wavelength

Summary:

The purpose of this lesson is for students to learn the basics about waves and the electromagnetic spectrum. Included are an indepth PowerPoint presentation and a worksheet for students to complete after the presentation. The worksheet tests students' ability to define the parts of the wave, as well as how to measure wavelength, amplitude and frequency of example waves. It also provides



students a space to write their understanding of how scientists are able to gain information about our universe through using various wavelengths of the electromagnetic spectrum.

Keywords: electromagnetic spectrum, wavelength, waves, hertz, frequency, crest, trough, wavelength

Subject TEKS: Science: 8.8(C) explore how different wavelengths of the electromagnetic spectrum such as light and radio waves are used to gain information about distances and properties of components in the universe;

Grade Level: 8th

Learning Objectives:

The learner will:

- Label the parts of a wave (crest, trough, wavelength, amplitude)
- Describe the relationship between frequency of a wave and energy of a wave
- Analyze the wavelengths of light used by astronomers and explain why astronomers use infrared radio waves and microwaves to take pictures of the universe

Time Required: 45 minute session + 30 minute session

Materials:

- Electromagnetic Spectrum PowerPoint
- Exploring the Electromagnetic Spectrum Worksheet
- Computer
- Ruler

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