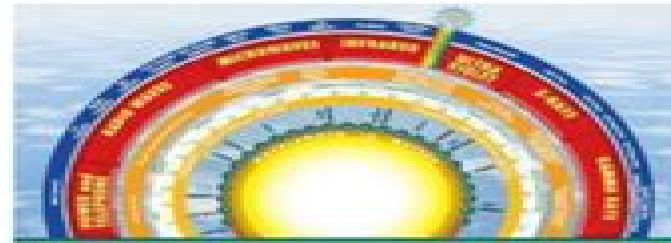


Lesson Plan

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 in-depth 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

Electromagnetic Spectrum Regents Lesson Plan

United States. Congress



Electromagnetic Spectrum Regents Lesson Plan:

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Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June

Resources in Education ,1994-05 **Congressional Record** United States. Congress,2000 **Lesson Plan on the Electromagnetic Spectrum** , The Johns Hopkins University Applied Physics Laboratory presents a lesson plan entitled Lesson Plan on the Electromagnetic Spectrum This lesson is suitable for use with students in grades 8 12 The students will explore the various wavelengths in the electromagnetic spectrum The laboratory offers this lesson plan as part of the Educator s Guide to Near Earth Asteroid Rendezvous NEAR ERS Spectrum ,1995 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1962 Journal of the House of Representatives of the United States United States. Congress. House,1959 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House **Department of State News Letter** United States. Department of State,1963

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