



Online Electromagnetic Spectrum Activity

Name	Answer Key				
Period	1	2	3	4	February 17, 2014
Score	/54				Grade
					%

Directions: Follow the links found in each of the activities listed below to complete the activities.

Activity 1: Visible Light Go to Virtual Prism <http://www.sciencejoywagon.com/explsci/media/prism.htm>

1. Click on the button, "hold down for white light". Describe what happens.

The white light is broken down into separate beams of visible light.

2. Click on hand, move back and forth. (Note that a prism separates light into various wavelengths) 2. Identify the wavelength of the following colors:

- A. blue light 420 nm B. yellow light 622 nm C. red light 668 nm

Activity 2: What Are Electromagnetic Waves? http://www.colorado.edu/physics/2000/waves_particles/index.html

3. What kinds of waves have wavelengths of:

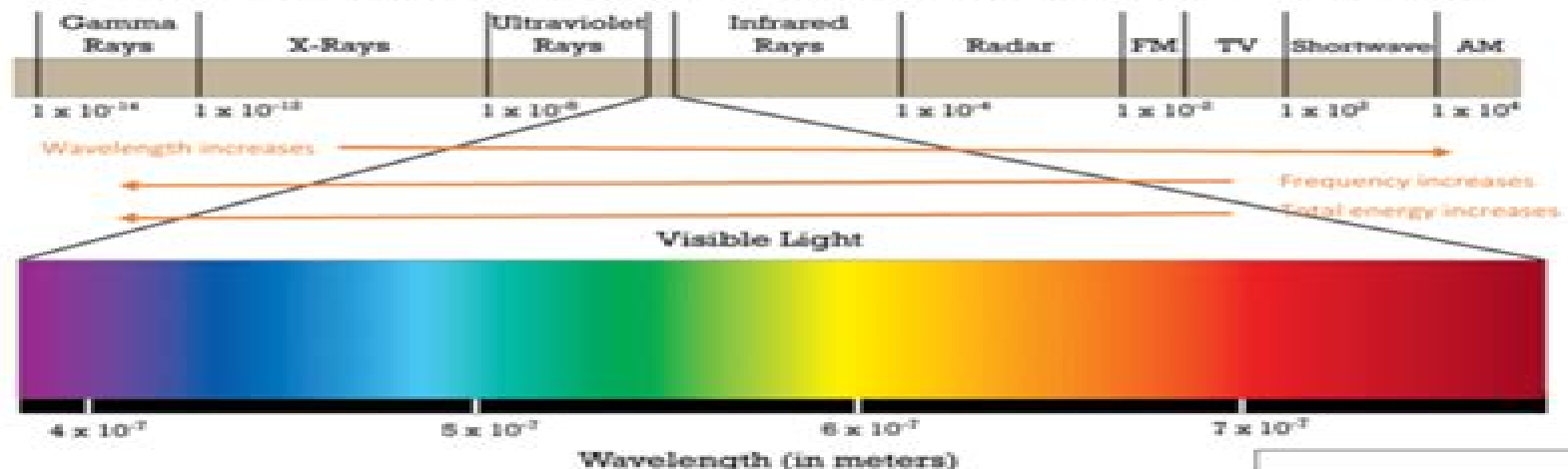
- A. about 1-200 meters radio waves B. about 1×10^{-9} meters Ultraviolet waves

4. What are the wavelengths of:

- A. Microwaves 0.10 meters B. Visible light 0.5×10^{-6} meters C. Gamma rays 10^{-12} meters

Activity 3: The Electromagnetic Spectrum <http://lectureonline.cl.msu.edu/~mmp/applst/Spectrum/s.htm> In this applet, you can click on the wavelength/frequency scale and change the wavelength and frequency by dragging the mouse around. You can also change the wavelength by using the arrow keys on your keyboard. Holding the shiftkey down while pressing the left or right arrow keys changes the wavelength by a factor of 10.

5. Add arrows to the picture below showing increasing or decreasing: - Wavelength - Frequency - Total Energy



Score /10

Answer Key To Grade 8 Electromagnetic Spectrum

Oswal

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the 'Oswal' text.

Answer Key To Grade 8 Electromagnetic Spectrum:

Spectrum Science, Grade 8 Spectrum, 2014-08-15 Cultivate a love for science by providing standards based practice that captures children's attention Spectrum Science for grade 8 provides interesting informational text and fascinating facts about the nature of light the detection of distant planets and internal combustion engines When children develop a solid understanding of science they're preparing for success Spectrum Science for grades 3-8 improves scientific literacy and inquiry skills through an exciting exploration of natural earth life and applied sciences With the help of this best selling series your young scientist can discover and appreciate the extraordinary world that surrounds them

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