

Monday, November 26, 2018

Your Learning Goal: At the end of the lesson, SWBAT explain/demonstrate the properties of each EM wave.

Key Terms: *frequency, wavelength, speed*

Table of Contents: Electromagnetic Superhero (20R+L)

Catalyst Question: If an electromagnetic wave has a high frequency, would it have a long or short wavelength? How is wavelength related to frequency?

Homework:

Start Reviewing For
Final Exam
DEC 13/14

Agenda

1. Catalyst
2. Each group will have 3 minutes to present using their poster.
3. Reflection questions

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<u>Date</u>	<u>Assignment</u>	<u>Pg #</u>
10/8/18	Our Expanding Universe	9 L + R
10/8/18	The Universe: Beyond the Big Bang	10 L + R
10/11/18	Going Subatomic	11L + R
10/15/18	Changing Phases	12 L + R
10/16/18	Conservation of Mass	13L + R
10/19/18	It's Elementary	14 L + R
10/23/18	We're Changing	15 L + R
10/25/18	Atomic Jeopardy	16 L + R
11/6/18	Star Bright	17 L + R
11/8/18	Heartbeat Frequency	18 L + R
11/13/18	Spring Into Waves	19 L + R
11/26/18	Electromagnetic Superhero	20 L + R

8R

11/26/18

Catalyst:

1. If an electromagnetic wave has a *high frequency*, would it have a *long or short wavelength*?
2. What about a low frequency wave?
Draw AND Explain.
3. How is wavelength related to frequency?
(2-3 sentences)

20L

11/26/18

Electromagnetic Superhero

20R

Create this chart on

20R

EM Wave Name	Wavelength <i>(long, med, short)</i>	Frequency <i>(High, med, low)</i>	Examples or Uses
Radio waves			
Microwaves			
Infrared waves			
Visible Light			
Ultraviolet rays			
X-rays			
Gamma rays			

11/26/18

Catalyst:

1. If an electromagnetic wave has a *high frequency*, would it have a *long or short wavelength*?
2. What about a low frequency wave?

Draw AND Explain.

3. How is wavelength related to frequency? (2-3 sentences)

20L

11/26/18

Electromagnetic Superhero

EM wave	wavelength	frequency	examples/ uses
Radio waves			
Microwaves			
Infrared waves			
Visible Light			
Ultraviolet rays			
X-rays			
Gamma rays			

20R

11/26/18

Catalyst:

If an electromagnetic wave has a relatively high frequency, would it have a long or short wavelength? How is wavelength related to frequency? (2-3 sentences)

Reflection:

How are the 7 different EM wave/ radiation similar and different from one another? (5 sentences)

20L

11/26/18

Electromagnetic Superhero:

EM wave	wavelength	frequency	examples/ uses
Radiowaves			
Microwaves			
Infrared waves			
Visible Light			
Ultraviolet rays			
X-rays			
Gamma rays			

20R

Reflection

20L

How are the 7 different EM wave/
radiation similar and different from one
another? (5 sentences)