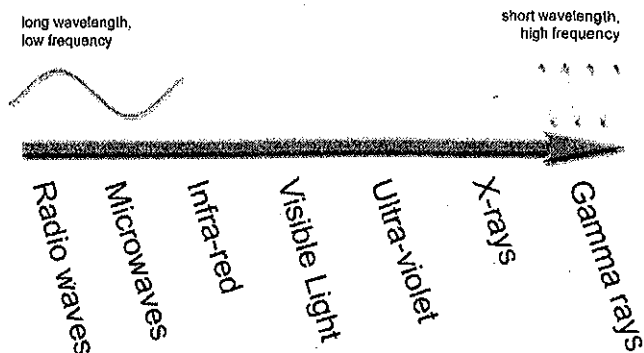


Electromagnetic Spectrum Web Quest

Name _____ Date _____ Hour _____

Procedure:

1. Go to jms7science.weebly.com
2. Click on EM Spectrum Web Quest page
3. Complete each Activity in the list, all information will be recorded in your Science Notebook.



Activity #1:

- Click on the button for Website #1.
- Click "play"
- Click the "start" button on the upper right hand corner
- Move the infrared camera over each item (you can change the item in the window).

IN YOUR NOTEBOOK... Make a data table like the one below. List the hottest and coldest parts of the item/picture. Do this for 10 items.

ITEM	HOTTEST PART	COLDEST PART
1.		
2.		

Activity #2

- Click on the button for Website #2
- Click the "Launch" button on the greenish figure.
- Click "begin the tour" button
- Beginning at Radio Waves, record all the examples shown of each electromagnetic wave.
- Move the cursor over each item and explain how it works OR one interesting fact. Use complete sentences.
- When each section is complete, click the next button to advance to the next wave. Stop after Gamma Rays.

IN YOUR NOTEBOOK...Example

Radio Waves

1. Television- television stations use radio waves to broadcast signals through the air.
2. Two-Way Radio-.....etc.etc.etc.

Activity #3

- Click on the button for Website #3
- Slowly drag and release the green arrow in the diagram under Wavelength, Frequency and Energy to study interesting facts about individual EM waves.

IN YOUR NOTEBOOK...Make a data table like the one below. Record the following information:

1. Name of Wave;
2. A fact shown from above the chart;
3. Draw the Frequency of the wave;
4. Draw the level of energy.

Name of Wave	Fact	Frequency	Energy Level
Radio Waves			
Microwaves			

Activity #4

- Click on the button for Website #4.
- Click on the image to open it up.
- Drag the circle slider to each type of EM Wave.

IN YOUR NOTEBOOK...List each type of wave and 1 FACT from each description that YOU think is most important.

Type of Electromagnetic Wave

IMPORTANT Fact

1. Radio
2. Microwave
3. Infrared
4. Visible Light
5. UltraViolet
6. X-Ray
7. Gamma

Activity #5

IN YOUR NOTEBOOK...

- Draw a diagram of the EM Spectrum. You have seen several versions through this web quest, you can use one of the diagrams you have seen, or come up with your own.
- Your diagram should show the change in Frequency and Energy level from one end of the Spectrum to the other. Anything else you want to add to the diagram is up to you.