Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_\_\_

Purple **Station 5: Electromagnetic Spectrum**

**Pre-activity question:** What kind of electromagnetic radiation have you been exposed to this year?

Today?

**Part 1:**

1. Log onto the Chromebook, open an internet tab, and type in the following web address: <http://earthguide.ucsd.edu/eoc/special_topics/teach/sp_climate_change/p_emspectrum_interactive.html>

-You may have to click “enable Adobe Flash player” then select “allow”

If it doesn’t work

-type into google “electromagnetic spectrum interactive”

-Select the first site that pops up

2. Explore the interactive and answer the discussion questions found at the bottom of the spectrum on the back of this paper.

**Part 2:** You will be creating colored model of the electromagnetic spectrum using the following resources on the back of this paper. Your diagram needs to include the kinds of radiation with an example, definition and picture.

**Task Steps:** .

1. Watch the following video: BrainPop: Electromagnetic Spectrum

-Go to “brainpop.com”

-In the search box type “electromagnetic spectrum”, click the first video (top left).

-Login: stout 1 password: falcon

**Part 3** Answer the following question using complete sentences and a restate on your model.

1. Which type of radiation (on the Electromagnetic Spectrum) do you think is the MOST harmful to humans? Provide evidence from the self-guided tour, videos, and/or readings.

**Electromagnetic Spectrum Interactive Discussion Questions:**

**Electromagnetic Spectrum Diagram:** For each type of radiation include a picture, example and definition.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_\_\_

Purple **Station 5: Electromagnetic Spectrum**

**Directions:** Complete the following questions and tasks. Checkmark your steps as you complete them.

**\_\_\_Pre-activity question:** What kind of electromagnetic radiation have you been exposed to this year?

Today?

**Part 1:**

\_\_\_1. Log onto the Chromebook, open an internet tab, and type in the following web address: <http://earthguide.ucsd.edu/eoc/special_topics/teach/sp_climate_change/p_emspectrum_interactive.html>

-You may have to click “enable Adobe Flash player” then select “allow”

If it doesn’t work

-type into google “electromagnetic spectrum interactive”

-Select the first site that pops up

\_\_\_2. Explore the interactive and answer the discussion questions using complete sentences and a restate.

**\_\_\_Electromagnetic Spectrum Interactive Discussion Questions:**

1. What are the differences between different types of electromagnetic radiation?

2. Which has a longer wavelength-visible or infrared radiation?

3. What contains more energy-visible or infrared radiation?

4. Which has a higher frequency-visible of infrared radiation?

5. Do EM waves transmit energy or mass?

**Part 2: Task Steps:** .

\_\_\_1. Watch the following video: BrainPop: Electromagnetic Spectrum

-Go to “brainpop.com”

-In the search box type “electromagnetic spectrum”, click the first video (top left).

-Login: stout 1 password: falcon

\_\_2. Create a colored model of the electromagnetic spectrum. Your diagram needs to include the kinds of radiation with an example, definition and picture.

**Part 3** Answer the following question using complete sentence.

1. Which type of radiation (on the Electromagnetic Spectrum) do you think is the MOST harmful to humans? Provide evidence from the self-guided tour, videos, and/or readings.