Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour: 3rd 4th

**Student Choice Project:**

**Electromagnetic Spectrum**

**Due: Monday, April 22, 2019**

You will summarize and show what you know about each frequency on the electromagnetic spectrum.

**You may create one of the following:**

* 8.5x11 poster printed on the back of this rubric (write small)
* Standard size poster board
* Google slides (sent to harrisr1@dearbornschools.org before due date)
* 8.5x11 poster created on Google Docs (sent to harrisr1@dearbornschools.org before due date)
* Another comparable option of your choice if you have gotten it approved by Mrs. Harrison

**You are required to include the following:**

* Name (radio waves, microwaves, infrared waves, visible light, ultraviolet waves, x-rays, gamma rays)
* Key characteristics (wavelength, frequency, key facts)
* Picture, drawing, or diagram – any visual related to the type of radiation
* 2 uses of this type of radiation in our everyday life or industry
* Danger: Is it harmful, helpful or both (to humans)? Explain.

**Rubric:**

|  |  |  |
| --- | --- | --- |
| **Poster Component** | **Points Possible** | **Points Earned** |
| **Radio Waves** | 6 |  |
| 🞏 Name | 🞏 Key Characteristics | 🞏 Picture | 🞏 Use 1 🞏 Use 2 | 🞏 Danger |
| **Microwaves** | 6 |  |
| 🞏 Name | 🞏 Key Characteristics | 🞏 Picture | 🞏 Use 1 🞏 Use 2 | 🞏 Danger |
| **Infrared Waves** | 6 |  |
| 🞏 Name | 🞏 Key Characteristics | 🞏 Picture | 🞏 Use 1 🞏 Use 2 | 🞏 Danger |
| **Visible Light** | 6 |  |
| 🞏 Name | 🞏 Key Characteristics | 🞏 Picture | 🞏 Use 1 🞏 Use 2 | 🞏 Danger |
| **Ultraviolet Waves** | 6 |  |
| 🞏 Name | 🞏 Key Characteristics | 🞏 Picture | 🞏 Use 1 🞏 Use 2 | 🞏 Danger |
| **X-Rays** | 6 |  |
| 🞏 Name | 🞏 Key Characteristics | 🞏 Picture | 🞏 Use 1 🞏 Use 2 | 🞏 Danger |
| **Gamma Rays** | 6 |  |
| 🞏 Name | 🞏 Key Characteristics | 🞏 Picture | 🞏 Use 1 🞏 Use 2 | 🞏 Danger |
| **General Requirements** | **Points Possible** | **Points Earned** |
| **Neatness / Professionalism:** Poster meets “project” / “summative” expectations | 3 |  |
| 🞏 Neat Handwriting / Typed & COLORFUL! | 🞏 Turned in on time | 🞏 Approved format | 🞏 Complete sentences |
| TOTAL (Summative) | 45 |  |