

# Science 8 Electromagnetic Spectrum Project

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Block: \_\_\_\_\_

## What's the Purpose of this Project?

To discover what is meant by "The Electromagnetic Spectrum" and create a project to explain & illustrate this new knowledge.

### Part 1: (Researched, and submitted in week 1)

You are to independently, research the following key ideas and submit your findings, notes as well as the resources used (Internet sites used are cited in your bibliography) that will include the following:

- Describe / explain what is meant by the term "Electromagnetic Spectrum"
- Provide a definition for a wave (not the ocean kind) in your own words, including diagrams, drawings or illustrations that identify the **crest, trough, wavelength, amplitude** and any other important parts of this.  
**(If you are using an image from the web, make sure that you explain the diagram in your own words.)**
- Determine / explain what **frequency** and **hertz** mean
- For the following listed types of waves:

**Radio    Microwave    Infrared radiation    Ultraviolet radiation    X-ray    Gamma ray**

- Describe & explain each of them.
- List at least two practical uses for each form of radiation.
- **(The notes should be neat, correctly spelled and organized, so they are useful for next week's project)**

**( Submit these organized notes to the Google Classroom for marking)**

### Part 2: (Formally submitted in week 2)

Create a slideshow, video, or poster, etc using the notes you have researched, written and handed in to your teacher last week in Part 1. Please make sure that your project uses concise language, proper spelling, text and illustrations to connect the information visually.

Since you submitted notes in part 1, spelling counts. ( *ie. point form information and images* )

**( Submit project to the Google Classroom for marking)**

- **Marking Criteria:**

Rubric is attached / included ( assign yourself a mark using the criteria, I will then mark and agree or discuss with you )

- **Timeline:**

One week to complete each Part of the project.(Parts 1 and 2)

- **Submission & Self Assessment: (You are going to mark your work via the provided rubric)**

Make sure that work is attached and submitted via the Google Classroom.

Make sure to include a copy of the rubric with the calculated mark for your project.

