Sci 8 **Part B: Electromagnetic Radiation Inquiry Research Assignment**

**due April 24**

*Chose ONE of the following two options for a research assignment on EMR:*

**Guided Inquiry Exploring Medical Imaging Technologies:**

**Question**: How is imaging used in the medical field beneficial and harmful?

**What to do**: Choose a medical imaging technology that uses electromagnetic radiation. Find out how the imaging technology can help patients. Find out how the radiation it uses can be harmful. Describe the social, ethical and environmental implications of the findings.

This is to be in essay form including title, brief introduction and description of EMR, discussion of your topic. Sources cited.

* Brief description of EMR used
* Brief description of how it is used
* Negative Implications: how can it be harmful to the patient?
* Positive Implications: How does the patient benefit? How does society as a whole benefit (treatment, lives saved, less drain on health care, advanced in technology or health care in general, economy, etc)
* Bibliography

***OR***

**Open Inquiry Exploring Electromagnetic Radiation in your Community**:

**What to do:** Research a job or career that uses Electromagnetic Radiation that interests you. What attracts you to it? What kinds of things do you have to know, do, and understand for this job or career? What are the social, ethical and environmental implications of using this technology?

This is to be in essay form including title, brief introduction and description of EMR, discussion of your career, biography.

* Brief description of EMR used
* Description of how this EMR is used in this job.
* Description of the career and duties.
* Negative Implications: How might this radiation be harmful to those working in this field or to society in general.
* Positive Implications: How does society as a whole benefit (discovery, advanced technology, makes our lives easier, more efficient, is there an economic benefit, etc)
* Sources cited