Name: ______________________

Electromagnetic Spectrum Book

Background
This is a research project focused on the electromagnetic spectrum. You will make a book that outlines the electromagnetic spectrum as a whole as well as details about each part. The electromagnetic spectrum is made up of seven different energy ranges: radio waves, microwaves, infrared, visible light, ultraviolet rays, x-rays, and gamma rays.

Objective
You will have two class days to research the electromagnetic spectrum for your book.

Procedure
Your book must contain the following sections:
1. Title Page & Name
2. General Information (electromagnetic waves: definition, symbols, terms, diagrams)
3. Radio Waves
4. Microwaves
5. Infrared
6. Visible Light
7. Ultraviolet Rays
8. X-Rays
9. Gamma Rays
10. Interesting Fact and References

For sections 3-9 you must include the following information:
- Wavelength (in either meters or centimeters); this wavelength should then be related to the size of a real life object
- What can the wavelength pass through?
- What are the uses for the wavelength?
- Are there any dangers associated with the wavelength?
- Minimum of one picture

For section 10 you should include at least one interesting, detailed fact about electromagnetic waves. You also must cite every reference that you use (including citations for the pictures that you use). You are required to use a minimum of 3 references.

Results
This book will be graded out of a possible 25 points. The total will be multiplied by 3.4, for a possible grade of 85 if all minimum requirements are met. The rubric showing the grading for the minimum requirements is attached. Additional points can be earned for exceptional work. Some things that may earn extra points:
- Numerous facts
- Additional illustrations
- Illustration of the visible spectrum in color
- Exceptional presentation