

ELECTROMAGNETIC SUPERHERO/VILLAIN PROJECT GUIDELINES

Name:	Date:	Hour:
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Purpose: The purpose of this project is to help students gain a greater understanding of the electromagnetic spectrum.

Directions:

- 1) Follow the directions given to you by your teacher.
- 2) Choose the area of the electromagnetic spectrum that interests you the most. I would like to show what I know about the _____ part of the EM spectrum.
- 3) Decide whether you want to create a superhero (who does positive things) or a villain (who does negative things). For my project, I would like to create a _____.
- 4) Complete the planning sheet. (Use class time wisely)
- 5) Design a superhero/villain that illustrates the characteristics of your chosen part of the electromagnetic spectrum:
 - a. Wavelength and Frequency
 - b. Energy Level
 - c. Uses
- 6) Write a paragraph that describes the superhero/ villain qualities. The qualities of your superhero/villain will come from the area of the spectrum that they are associated with. **You should underline/highlight these qualities of your superhero/villain from the chosen area of the electromagnetic spectrum in your paragraph.**

What to turn in on the due date:

Due Date: _____

- 1) Planning Sheet
- 2) Drawing – Large construction paper size
- 3) Paragraph

Electromagnetic Superhero/Villain Project Rubric

Name:	Hour:	Due Date:
Total Available Points-10pts. Chosen ray from spectrum: <hr/>	Comments	
Project Planning Sheet: 1 point <ul style="list-style-type: none">• <i>Complete and turned in</i>		
Paragraph 4 points <ul style="list-style-type: none">• <i>Describes</i><ul style="list-style-type: none">○ wavelength,○ frequency,○ energy level,○ uses of the EM wave in a creative way		
Drawing: 4 points <ul style="list-style-type: none">• <i>Colored, neat</i>• <i>Shows knowledge of wavelength, frequency, energy level and uses for the EM wave</i>		
Neatness/ Effort: 1 point <ul style="list-style-type: none">• <i>Excellent effort, very creative</i>		