

Debate: Which part of the EM spectrum is the best?

“Best” = number of applications supported with understanding and if necessary examples to illustrate the importance

Goal of activity:

- Learn about the electromagnetic spectrum
- Learn about the waves as a model for light
- Explore the technologies that use light

Select a group – random draw

Gamma, X-ray, UV, Visible, IR, Microwaves, Radio waves

Research - supported with references, divide up equally between group members

Wikipedia is allowed as a starting point but then must be supported with a secondary reference (textbook, library book, valid scientific website)

Display - poster paper, list of applications (initial group member beside each application), part of EM, properties such as wavelength, energy, frequency, range, origin of name,

Interrogation - each group can ask about one particular application and the group must be prepared to defend citing references and demonstrate understanding of that particular application, Mr. White gets to ask 2

Defense - allowed one cue card per application front side only

Presentation - scored by correctly supporting each of 8 questions

Scoring:

- Application count (10-20 points)
- Description of part of electromagnetic spectrum (5 points)
- Organization of Poster (legible, organized, visible)(10 points)
- Presentation Defense (25 points)