

2.9: Mission Report 2 - The Properties of Light

A. Please rate on a scale of 1 to 5 how effective you think the Wrapping It Up activity was in helping you understand the material. (1: not effective at all → 5: very effective)

* 1 2 3 4 5

B. What were the main ideas that you learned in conducting the Wrapping It Up activity? Be specific and detailed in your response. Please address the following questions: What did you learn? How did you learn it? What is still unclear? (At least 150-200 words)

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C. If the Wrapping It Up activity included measurements or data, please describe what factors influenced the accuracy of your results. (Do *not* include mistakes, only unavoidable measurement imprecision.) If you obtained any numerical values for the accuracy of your measurements during the activity, note those here. If there were no measurements or data, say so explicitly.

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D. Questions to be graded for accuracy

1. Explain the difference between the frequency and speed of a light wave.

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2. Explain the relationships between the frequency, wavelength, and energy of a light wave.

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3. What are the wavebands of the electromagnetic spectrum? List them in order from lowest to highest energy.

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4. An electron jumps from the $n = 3$ to the $n = 2$ level of hydrogen. What type of spectrum is produced and why? What is the energy of the photon in eV?

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