



Scoring Rubric: Oh Say Can You See

Scoring Criteria	1 Attempted Demonstration	2 Partial Demonstration	3 Proficient Demonstration	4 Distinguished Demonstration
Content Knowledge Students' understanding of electromagnetic radiation including distinctions between various ways radiation travels.	Student describes at least 2 types of EMR in the task but makes little attempt to distinguish between radiation emitted by objects in their space, reflected off objects, absorbed by objects, and transmitted through objects, or attempt may include major errors and omissions.	Student describes the 3 types of EMR in the task and attempts to make some distinctions between radiation emitted by objects in their space, reflected off objects, absorbed by objects, and transmitted through objects. There may be minor errors or omissions.	Student correctly describes the 3 types of EMR in the task and makes distinctions between radiation emitted by objects in their space, reflected off objects, absorbed by objects, and transmitted through objects.	Student correctly and thoroughly describes the 3 types of EMR in the task and links the differences in reflection, transmission, emission, and absorption to EMR wavelength and properties of materials. Student may offer sophisticated and/or insightful details and/or interpretations.
Communication Students' ability to use visuals, such as charts and maps, to communicate information.	Maps and/or charts were created to organize and display data. Some information may be inaccurate, missing, unclear, or irrelevant.	Maps and charts were created to organize and display data. Some information may contain slight inaccuracies, be missing or is unclear.	Maps and charts were created to effectively organize and display data.	Maps and charts were created to effectively organize and display data. Details on the map and/or chart significantly enhanced the effectiveness of the displays in organizing and conveying the data.
Communication Students' ability to present their findings clearly and effectively.	An attempt was made to describe method(s) used for collecting the data. Another team. Another team would be unable to duplicate the work due to significant amounts of missing and/or misleading information. Findings were presented although there may be major errors, ambiguities or omissions.	The method(s) used for collecting the data were described. Another team attempting to duplicate the work would need to ask clarifying questions, need additional information about some details, or may be slightly misled. Findings were presented although there may be minor errors, or slight ambiguities or omissions.	The method(s) used for collecting the data were clearly and completely described. Another team could accurately duplicate the work without additional information. Findings were clearly presented.	The method(s) used for collecting the data were clearly and completely described and included additional description beyond words such as visuals or demonstrations. Another team could easily and accurately duplicate the work without additional information. Findings were clearly and thoroughly presented.