

STEM Endorsement Capstone Rubric

Student: _____

Date: _____

PRESENTATION	Does Not Meet	Partially Meets	Meets	Exceeds
Organization	Information is not presented in logical order. Connections are not made between sections	Information may be presented out of order. Connections between sections are unclear or incomplete.	Information is mostly presented in a logical, sequential order. Connections are made between sections.	Information is presented in a logical, sequential order. Clear connections are made between sections.
Visual Aids	Visual aids are not used, ineffective, or distracting due to errors or design.	Visual aids are used somewhat effectively in delivering presentation. Visual aids include distracting errors or design.	Visual aids are used effectively in delivering presentation. Visual aids are error-free, relevant, and do not distract from presentation.	Visual aids are used effectively in delivering presentation. Visual aids are error-free, relevant, and do not distract from presentation. Visual aids look professional.
Response to Questions	Speaker is unable to answer questions or answers are irrelevant to project.	Speaker has difficulty answering questions. Answers to questions do not reflect knowledge of project.	Speaker is able to answer questions with confidence. Answers to questions reflect knowledge of project.	Speaker is able to answer questions with confidence. Answers to questions reflect deep knowledge of project and understanding of possible applications or extensions.

RESEARCH	Does Not Meet	Partially Meets	Meets	Exceeds
Demonstrates completion of the following criteria: 1. understanding of relevant scientific concepts and application of the practices of science 2. application of appropriate technologies and tools 3. incorporation of engineering practices to solve a problem or meet a need 4. application of appropriate mathematical concepts and practices	Student is unaware of the STEM project criteria and incorporates few STEM project criteria into the finished project.	Student demonstrates knowledge of and incorporates most of the STEM project criteria into the project.	Student demonstrates knowledge of and incorporates all four STEM project criteria into the project.	Student demonstrates knowledge of and exceptionally incorporates all four STEM project criteria into the project.
Clearly states the purpose/ research question(s)	No question is posed	The original question is vague or unclear	Question is clearly posed	Question is clearly posed, complex, and novel
Culminates with a clearly written interpretation of the data that poses answers to the original research question(s)	Data are not analyzed and the original question is not addressed	Data are partially analyzed and the original question is partially addressed	Data are analyzed and the original question is addressed clearly	Data are analyzed, the original question is addressed masterfully, and conclusions are applied beyond the scope of the original design
Documentation that clearly describes the research and experimental process	No documentation	Documentation present, but unclear or incomplete	Documentation clear and complete	Documentation clear and complete and offers exceptional insight into the project
Clearly describe the data gathering methodology	Research was not completed	Research was partially completed and documented	Research was completed and documented	Research was completed and documented with fidelity and professionalism

Score: _____

Comments: