Problem to Profit Rubric Explanations

	Distinguished 4	Proficient 3	Developing 2	Beginning 1
Problem				
What: What is the problem?	Student states the problem that was found via research or personal experience.	Student states the problem with limited understanding of the research or any personal experience.	Student states the problem with no understanding of the research or any personal experience.	Student does not state the problem.
Why: Why are you building this STEM build?	Student expresses the relevance of the build and the real world application of the build.	Student expresses some relevance of the build and makes limited application of the build.	Student expresses little relevance of the build and little understanding of the real world application of the build.	Student does not express the relevance of the build nor an understanding of the real world application.
How: How will you help the community with this STEM Build?	Student explains the importance of this build to the community in detail with examples of applications.	Student explains the importance of this build to the community in detail with at least 1 example of applications.	Student explains the importance of this build to the community with few details or examples of applications.	Student does not explain the importance of this build to the community in detail and does not provide any examples of applications.
How does your STEM build integrate math and science?	Student articulates their math and science standards and how this build uses both standards to expand their learning.	Student articulates their math and science standards and attempts to express how this build uses both standards to expand their learning.	Student attempts to articulate their math and science standards and attempts to express how this build uses both standards to expand their learning.	Student does not articulate their math and science standards nor express how this build uses both standards to expand their learning.
Ask				
What are some questions you had prior to your build?	Student shared at least 4 questions their group asked prior to the build.	Student shared at least 3 questions their group asked prior to the build.	Student shared at least 2 questions their group asked prior to the build.	Student shared 1 or no questions that their group asked prior to the build.
Imagine				
Explain your analyzation of the project and materials and how they will be used to create your STEM build.	Student shared the optional materials provided. Identified any materials that their group brought in for the build. Express why their group chose specific materials.	Student shared the optional materials provided. Identified any materials that their group brought in for the build. Attempted to express why their group chose specific materials.	Student attempted to share the optional materials and any materials that their group brought in for the build. Attempted to express why their group chose specific materials.	Student did not share the optional materials; nor any materials that their group brought in for the build; nor did the student express why their group chose specific materials.

Plan

Explain your groups plan and process for evaluating the effectiveness of your STEM Build.	Student shared their groups plan with detail and explains why they made these decisions.	Student shared their groups plan with some detail and explains why the group made some of their decisions.	Student attempted to share their groups plan with some detail and attempted to explain why the group made some of their decisions.	Student did not share their groups plan with no details. Nor any attempts to explain why the group made some of their decisions.

Create

Explain and Evaluate your groups build.	Student explained the process their group took to create their prototype.	Student explained most of the process their group took to create their prototype.	Student attempted to explain most of the process their group took to create their prototype.	Student did not attempt to explain any of the process their group took to create their prototype.

Improve

Distinguish the errors you found in your build. Evaluate and explain how your group addressed your errors.	Student shared the errors of their build. Student was able to explain how the errors effected the build. Student was able to explain how the group addressed the errors and if their improvements gave them the results that they were looking for. If not, what are their next steps for improvement?	Student attempted to share the errors of their build. Student attempted to explain how the errors effected the build. Student attempted to explain how the group addressed the errors and if their improvements gave them the results that they were looking for. If not, what are their next steps for improvement?	Student shared few of the errors of their build. Student explained very little about how the errors effected the build. Student explained very little about how the group addressed the errors and if their improvements gave them the results that they were looking for. Nor did the student share next steps for improvement.	Student did not share the errors of their build. Student did not explain how the errors effected the build. Student did not explain how the group addressed the errors and if their improvements gave them the results that they were looking for. Nor did the student share next steps for improvement.

Present

All members of the group are part of the presentation	All group members can answer questions and articulate accurate responses about their STEM build and presentation.	Most group members can answer questions and articulate accurate responses about their STEM build and presentation.	Some group members can answer questions and articulate accurate responses about their STEM build and presentation.	The group members are not answering questions and articulate accurate responses about their STEM build and presentation.
Includes information from STEM Notebook.	Students utilized their STEM Notebooks to develop and create their presentations.	Students utilized most of their notes from their STEM Notebooks to develop and create their presentations.	Students utilized some of their notes from their STEM Notebooks to develop and create their presentations.	Students did not utilized their notes from their STEM Notebooks to develop and create their presentations.
Share research on the topic	Students utilized different methods of research to research their topic. Students included their research in their presentation.	Students utilized some methods of research to research their topic. Students included their some research	Students utilized few methods of research to research their topic. Students included	Students did not utilize any methods of research to research their topic. Students did not

		in their presentation.	little research in their presentation.	include research in their presentation.
Presentation is presented using technology (Website, Digital Media, Digital STEM Notebook or PowerPoint)	All group members participated in the development of their presentation in a digital format.	Most group members participated in the development of their presentation in a digital format.	Some group members participated in the development of their presentation in a digital format.	The group members participated in the development of their presentation that was not in a digital format.
Marketing Plan				
What is your STEM build a product or a service?	Group explains the need of their build for the community as a whole. Students express the impact their build will have on the community.	Group explains the need of their build for the community as a whole with a need for more clarity. Students express the impact their build will have on the community but they need to clarify this area more.	Group attempts to explain the need of their build for the community as a whole. Students attempted to express the impact their build will have on the community.	Group did not explain the need of their build for the community as a whole. Students did not express the impact their build will have on the community.
What is the cost / ROI of the build?				
How do you plan to market your product or service?				
Sub Total				
			Grade Total	

Student Comments

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Teacher Comments

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