

2021 Maker Expo Virtual Challenge

Team Name:
School:

Mechanics: *Please rate the team on the inclusion of the following elements*

Element - Points	Advanced Proficient- 10 9 8	Proficient- 7 6 5	Developing Proficient- 4 3 2	Novice- 1	Rating
1. Engineering Concept	A well thought out engineering concept is explained. Students demonstrate a clear understanding of the problem and the solution.	N/A	N/A	Engineering concept is lacking in thorough explanation. Students appear to have a lack of full understanding of the problem and the solution	
2. Mission	A well-constructed and targeted mission statement is presented. A clear aim of the team is explained.	N/A	N/A	Mission statement is not communicated effectively or targeted in presentation. The aim of the team is not explained.	
3. Pitch	A slogan that is catchy, creative, and relevant to product is included in the pitch presentation.	A slogan that is relevant to product is included in the pitch presentation.	A slogan is included in the pitch presentation but it not relevant to the product.	No slogan is included in the pitch presentation.	
4. Goals/Objectives	Goals and clear objectives are stated and described in detail with measurable outcomes.	Goals and objectives presented with a limited description and some measurable outcomes.	N/A	Goals and objectives are present with limited explanation lacking measureable outcomes.	

Content: *Please rate the team's overall understanding of the Design Process and Entrepreneurship*

Element - Points	Advanced Proficient- 10 9 8	Proficient- 7 6 5	Developing Proficient- 4 3 2	Novice- 1	Rating
1. Problem Identification	Constructs a comprehensive and detailed problem statement that accurately reflects the product operation. <i>(What problem did you choose and why?)</i>	Constructs an adequate problem statement that identifies the chosen theme. <i>(What problem did you choose and why?)</i>	Constructs a limited statement that attempts to communicate the chosen problem but the statement lacks clarity. <i>(What problem did you choose and why?)</i>	Constructs a statement that inaccurately reflects the chosen problem. <i>(What problem did you choose and why?)</i>	
2. 3D Research & Design	Evidence of in-depth research that fully addresses the product and the concept of rapid prototyping a product.	Some evidence of research that adequately addresses the product and the concept of rapid prototyping a product.	Limited evidence of research that addresses the product and the concept of rapid prototyping a product.	No evidence of related research to product and rapid prototyping.	
3. Target Audience	Detailed evidence of students brainstorming possible products and market needs related to product and solution (the "WHO").	Some evidence of students brainstorming possible products and market needs related to product and solution (the "WHO").	Limited evidence of students brainstorming possible products and market needs related to product and solution (the "WHO").	No evidence of students brainstorming possible products and market needs related to product and solution (the "WHO").	
4. Design Process	Thorough explanation of the design loop process utilizing 3D printing technology/technical illustration to solve problems.	Some explanation of the design loop utilizing 3D printing technology/technical illustration to solve problems.	Limited explanation of the connection between the design loop and entrepreneurship process utilizing 3D printing technology to solve problems.	No explanation of the connection between the design loop and entrepreneurship process utilizing 3D printing technology to solve problems.	
5. Marketing	Evidence of students following a detailed and well-researched plan to design, produce and market their product. (logo included)	Evidence of students following a plan to design, produce and market their product. (logo included)	Evidence of students following a plan to design, produce and market their product was below average . (logo included)	No evidence students followed a plan to design, produce and market their product. (No logo)	
6. Product Infographic	A detailed , colorful and well-designed explanation of the connection between the	An average design and explanation of the connection between the design concept and	Info graphic is below average and does not detail connection between the design	No infographic was presented or related to regarding the design concept or 3D printing technology.	

	design concept and production utilizing 3D printing technology to solve problems.	production utilizing 3D printing technology to solve problems.	concept and production utilizing 3D printing technology to solve problems.		
Total Mechanics + Content					
Comments/Feedback:					
Reviewer Initials:					TCE Staff Initials: