

Pennsylvania Invention Convention Scoring Rubric

		Needs Improvement (1)	Developing (2)	Good (3)	Excellent (4)	Notes:
I n v e n t i o n P r o c e s S	Identifying & Understanding	The team identifies the problem but lacks research and support for the overall impact or need for a solution.	The team provides problems and solutions. Minimal research is cited or included.	The problem is stated. The team indicates some research to support the problem or solution. Impact or how is included in the presentation.	The problem is clearly identified. The team identified the "HOW". Research exists to support the problem and its solution. The impact of the solution is included.	
	Ideating	Blueprints or journals are missing or lacking sufficient evidence.	The team displays the blueprint and mentions the development of ideas.	The team outlines brainstorming and processes to develop ideas.	The brainstorming process is explained in detail. Discusses original ideas and the process of developing the idea.	
	Designing & Building	There is no visual of the item/concept.	The team has a model or design prototype.	The team has a model and provides a demonstration.	The team explains how the model will work; materials selected to develop a model	
	Testing & Refining	The design process is missing. The team did not conduct field testing or how/if feedback was collected from experts.	The development of the design is reviewed by the team. Feedback is not evident or is lacking.	The team explains the process of creating the design and how feedback is used to improve or change the design.	Explains the development of ideas and challenges throughout the process. Explains the testing process and if feedback was collected.	

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I n v e n t i o n I m p a c t	Market Potential	The team is missing the need for design or targeted population.	The team includes the need for design.	The team outlines the population or need for design.	The team explains the population and research done to determine what the model is intended for.	
	Value Proposition	Idea/design is like what is already on the market.	Team design provides improvements to design (already existing).	The team presents features that speak to the uniqueness of design.	A summary is provided regarding why someone would buy this product. How is this product different from similar ones on the market?	
	Social Value	The invention could negatively impact the environment, society, etc.	The impact of the invention is not indicated or is lacking.	The team outlines the impact of invention.	The team identified societal, environmental, or other non-traditional impacts of the invention.	
	Originality	Invention already exists.	Invention already exists and is displayed with minor modifications.	Modified an already existing invention, however evidence is provided to support the cause for modifications.	Provides a unique solution that does not already exist.	

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I n v e n t i o n C o m m u n i c a t i o n	Logbook	Logbook is missing or incomplete.	Logbook is available but missing elements.	Logbook is completed and displayed.	Well organized, neat, and displayed. Outlines the invention journey. Shows growth, challenges, and successes.	
	Display Board	Missing information essential to understanding the project or no board is available for display.	Missing some essential information and lacking creativity or connection to projects.	Provides necessary information, organized.	Includes required information about the product and creatively expresses the developing process.	
	Judge Takeaway	No artifact for judges.	Artifact available but is incomplete.	Artifact is available and well designed.	Artifact is available, well designed and easily accessible to all judges.	
	The Pitch (Online Video or In-person)	Lacking polish and organization, limited team participation.	Organized, and led by one team member.	Well-rehearsed but all team members do not equally share presentation responsibilities.	Well-rehearsed and includes all team members equally.	