

Invention ID: _____ Invention Title: _____

Student 1: _____ Student 2: _____

Student 3: _____ Student 4: _____



WAYNE STATE
STEM Innovation
Learning Center

Judging Form

Evaluation Criteria

JUDGES: Start at the average/middle score (8 out of 15, 5 out of 10 and 3 out of 5), then add and deduct points per the rubric.

Invention Process (40 Points Possible)	Points	Judge's Feedback
Identifying and Understanding <ul style="list-style-type: none"> Identifies and defines a problem in need of being solved Has researched a problem and possible solutions Exemplar: Clearly defines problem and has researched sources to understand it	/10	
Ideating <ul style="list-style-type: none"> Identifies ideas for solving a problem Explains how the best idea was determined Exemplar: Explains that 2+ ideas were identified and the elimination process	/10	
Designing and Building <ul style="list-style-type: none"> Explains purpose and process for the design and build Exemplar: Clearly explains the journey of the design, including a written diagram with labeled materials	/10	
Testing and Refining <ul style="list-style-type: none"> Explains how the invention was tested and optimized Exemplar: Clearly explains the journey of the design, including a written diagram with labeled materials	/10	
Invention Impact (25 Points Possible)	Points	Judge's Feedback
Originality <ul style="list-style-type: none"> Invention is unique, novel and/or creative Exemplar: Something you have not considered or seen before	/15	
Market Research <ul style="list-style-type: none"> Has researched and demonstrated knowledge of how viable the market is Exemplar: Addresses tangible research and understanding of expected users and benefactors of the invention	/5	
Social & Environmental Value <ul style="list-style-type: none"> Understands and describes positive and negative impacts of invention on the environment and society Exemplar: Considers a broad range of social impacts and clearly articulates their potential impact	/5	

Invention Process & Impact Scores ____/65

Inventor Communication (35 Points Possible)**Points****Judge's Feedback****Recorded Pitch Video**

/5

- Best pitches introduce inventors, explain their process, refers to components (prototype, logbook, display) and articulate origination & potential of invention idea
- May use visuals (diagrams, printout, slides) to aid in explanations
- At least 4 minutes; Under 6 minutes

Exemplar: Invention was clearly created by the student as evidenced by the ability to clearly and thoroughly explain the invention

Logbook

/10

- Documents journey throughout the 7 steps of the invention process
- Must be organized, effective and complete to receive a score greater than 3
- Score breakdown: No Logbook = 0 Points; Basic Logbook = 5 points; Exemplary logbook = 10 points

Exemplar: Contains research about problem, research about similar inventions and thoroughly explains what makes this one better/different; references sources

Display Board

/5

- Displays 7 steps of the invention process and invention's potential
- Visually appealing and well-organized

Exemplar: Contains an at-a-glance version of their overall invention process, and a clear presentation of the invention itself

Prototype *Does not need to work*****

/5

- Communicates key characteristics
- Useful visual of invention
- The prototype need not be a working model, but should communicate how the invention would work were it real

Exemplar: Detailed model that effectively demonstrates intent and function of invention

Live Pitch and Q&A from Judges

/5

- Explains components of invention process and invention's purpose & impact
- Communicates with confidence and conveys their answers effectively when asked questions

Exemplar: Able to articulate their thought process leading through the journey of invention process, and how they arrived at the existing invention

BONUS POINTS

/5

- Awarded only if all 4 physical requirements are completed (logbook, display board, prototype, and recorded pitch video)
- 2 bonus points may be earned if all 4 of physical requirements are completed & submitted but are only partially finished

Communication Score ____/35

Invention Process & Impact Scores ____/65

Total Score ____/100