Judging Rubric Innovation / Grades 6-12

Develop and evaluate new devices, models, theorems, physical theories, techniques, or methods in technology, engineering, computing, natural science, or social science.

Project	Students
Judge's name (please print)	**Judge's signature**

PARTS A-H CAN BE DONE BEFORE THE DAY OF THE FAIR BY GOING ONLINE AND VIEWING THE PROJECT BOARD AND CAN BE REFINED AFTER DISCUSSION WITH THE STUDENTS.

ASSIGN A SCORE FOR EACH SECTION AND THEN ADD THE SCORE TO THE TOTALS TABLE.

PART A: QUESTION / HYPOTHESIS – 5% Assign a score between 1 and 5	**SCORE /5**
Do they have a clear logical purpose for their invention?	

PART B: ORIGINAL CREATIVITY – 5% Assign a score between 1 and 5	**SCORE / 5**
• Is the innovation an original idea? • Do they show resourcefulness and creativity in the design, use of equipment, construction and evaluation of the design? *OR* • Is it simply a design with little evidence of student imagination that can be found on the internet or in books or magazines?	

PART C: SCIENTIFIC THOUGHT / METHOD Assign a score between 1 and 10	**SCORE /10**
• Have they gathered information on current products or procedures from a variety of reliable sources? • Have they developed reasonable ideas on possible improvements? • Have they thoroughly tested their new product or procedure?	
PART D: SCIENTIFIC THOUGHT / RESULTS **Assign a score between 1 and 10**	**SCORE /10**
• Have they presented clear descriptions of their new product or process? • Have they made comparisons to current technology using clear tables and graphs?	
PART E: SCIENTIFIC THOUGHT / CONCLUSIONS **Assign a score between 1 and 10**	**SCORE /10**
• Do their conclusions match the data? • Did they outline the environmental, economic and societal benefits of their innovation? • Have they identified possible ongoing problems and suggested improvements if they were to continue to work on the innovation?	
PART F: SCIENTIFIC THOUGHT / REFERENCES **Assign a score between 1 and 5**	**SCORE / 5**
• Have they used multiple valid sources?	
PART G: PROJECT BOARD: ABSTRACT / SUMMARY **Assign a score between 1 and 5**	**SCORE / 5**
• Is it a clear, concise, and accurate summary of the innovation? • Does it include the reason for improving current technology problems they encountered and improvements they have made?	

PART H: PROJECT BOARD: SLIDES **Assign a score between 1 and 5**	**SCORE / 5**
• Is there enough information to describe the project and are the slides attractive and easy to follow?	

PARTS I-M WILL BE DONE ON THE DAY OF THE FAIR
ASSIGN A SCORE FOR EACH SECTION AND THEN ADD THE SCORE TO THE TOTALS TABLE

PART I: PRESENTATION 10% Assign a score between 1 and 10	**SCORE /10**
• Did they clearly outline their reasons for the innovation? • Was their presentation well organized and easy to follow? • Were they well prepared and did they show their enthusiasm and interest in the project? • If there were two students involved in the project, did they both take part in the presentation? • Did they cover important details?	

PART J: ABILITY TO ANSWER QUESTIONS Assign a score between 1 and 15	**SCORE /15**
• Did their answers show an understanding of their innovation (knowing why the process or product needed improvement, what the results show, the benefits of their innovation and limitations of their data)? • If there are two students, did they both answer questions?	

PART K: POSTER Assign a score between 1 and 15	**SCORE /15**
• Is the display board well organized and visually appealing? • Does it communicate key components of the project (improvements and benefits)?	

PART L LAB BOOK 5% Assign a score between 1 and 5	**SCORE /5**
• Does the lab book include all results and observations (including dates and names)?	

Add Subtotals from each part and add these to get the **total score awarded**

TOTALS			**SCORE**
PART A	**QUESTION / HYPOTHESIS**	/5	
PART B	**ORIGINAL CREATIVITY**	/5	
PART C	**SCIENTIFIC THOUGHT / METHOD**	/10	
PART D	**SCIENTIFIC THOUGHT / RESULTS**	/10	
PART E	**SCIENTIFIC THOUGHT / CONCLUSIONS**	/10	
PART F	**SCIENTIFIC THOUGHT / REFERENCES**	/5	
PART G	**PROJECT BOARD: ABSTRACT / SUMMARY**	/5	
PART H	**PROJECT BOARD: SLIDES**	/5	
PART I	**PRESENTATION**	/10	
PART J	**ABILITY TO ANSWER QUESTIONS**	/15	
PART K	**POSTER**	/15	
PART L	**LAB BOOK**	/5	
TOTAL		100	

M: FEEDBACK FOR THE STUDENTS
Strengths •
Recommendations •