## **Judging Rubric** Discovery / Grades 6-9

Undertake an investigation to test a scientific hypothesis using the experimental method. At least one independent variable is manipulated; other variables are controlled.

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 the student(s) have a clear, testable question or hypothesis?		

	B: ORIGINAL CREATIVITY – 5% a score between 1 and 5	SCORE / 5
•	Is the project an original idea?	
•	Do they show resourcefulness and creativity in the design, use of equipment, construction and analysis?	
OR		
•	Does the project simply repeat an experiment or study found in books or on the internet?	

PART (	C: SCIENTIFIC THOUGHT / METHODS	
Assign	a score between 1 and 10	SCORE /10
Experii •	ment  Have they identified multiple variables that they are controlling?	•
•	Have they chosen a variable to change that is quantifiable? Have they completed multiple trials?	
Study	, .	
•	Have they gathered information from a variety of reliable sources?  Have they made their own observations through gathering information (e.g. surveys)	
•	Have they explained their procedure to choose sources, gathered this information, and analyzed the data?	
PART I	D: SCIENTIFIC THOUGHT / RESULTS	CCODE
Assign	a score between 1 and 10	SCORE /10
Experii	ment	
•	Have they recorded their results in clear tables and graphs?	
C+udv	Have they completed appropriate data analysis (e.g. calculated the mean)?	
Study	Have they summarized their findings and used appropriate graphs or tables?	
•	Have they provided detailed descriptions of qualitative information?	
PART E	E: SCIENTIFIC THOUGHT / CONCLUSIONS	SCORE
Assign	a score between 1 and 10	/10
Experi	ment / Study	
•	Do their conclusions match the data?	
•	Have they identified possible sources of error and suggested improvements if they were to repeat the project?	
•	Have they identified next steps if they were going to continue the research?	
PART F	: SCIENTIFIC THOUGHT / REFERENCES	SCORE
Assign	a score between 1 and 5	/ 5
Experi	ment / Study	
•	Have they used multiple valid sources?	

PART G: PROJECT BOARD: ABSTRACT / SUMMARY Assign a score between 1 and 5	SCORE / 5
Experiment / Study	
<ul> <li>Is it a clear, concise, and accurate summary of the project?</li> </ul>	
<ul> <li>Does it include the question, methods, results, and conclusion?</li> </ul>	
PART H: PROJECT BOARD: SLIDES	CCODE
Assign a score between 1 and 5	SCORE / 5
Experiment / Study	
<ul> <li>Is there enough information to describe the project and are the slides attractive and easy to follow?</li> </ul>	

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
Experiment / Study		
<ul> <li>Did the student(s) clearly outline their reasons for doing the project?</li> </ul>		
<ul> <li>Was their presentation well organized and easy to follow?</li> </ul>		
Were they well prepared and did they show their enthusiasm and interest in		
the project?		
<ul> <li>If there were two students involved in the project</li> </ul>	ct, did they both take part in	
the presentation?		
<ul> <li>Did they cover important details?</li> </ul>		

PART J: ABILITY TO ANSWER QUESTIONS		/
Assign a score between 1 and 15	SCC	ORE /15
<ul> <li>Experiment / Study</li> <li>Do their answers show an understanding of the methods were used, what the results show, and</li> <li>If there are two students, do they both answer of</li> </ul>	limitations of their data)?	

PART K: POSTER Assign a score between 1 and 15	SCORE /15
Experiment / Study	
<ul> <li>Is the display board well organized and visually appealing?</li> </ul>	
<ul> <li>Does it communicate key components of the project (question, methods, results, conclusion)?</li> </ul>	

PART L LAB BOOK 5% Assign a score between 1 and 5	SCORE /5
<ul> <li>Experiment / Study</li> <li>Does the lab book include all results and observations (including dates and names)?</li> </ul>	

## 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 / METHODS	/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	
•	