

2021-2022 Science Fair Rules

Displays must be free standing. Participants will be given a 4'x3' table space on which to display their project. Judging will be done by a team of teachers, invited scientists, industry professionals, and representatives from the Children's Museum. Judging is based on creativity, accuracy, student presentation, and knowledge of subject, spelling and grammar, clarity, and completeness. Judges will ask students questions pertaining to their presentation.

Rules for your exhibit at the fair:

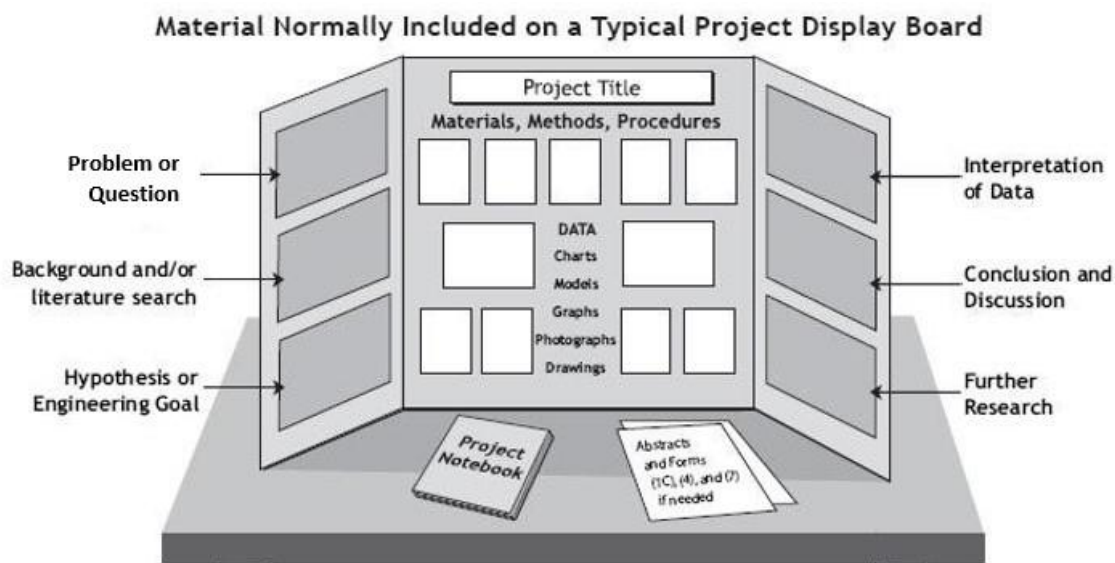
- No open flames permitted.
- No dangerous or combustible chemicals are permitted. (Rockets/other engines must not contain fuel)
- Dangerous substances such as drugs, poisons, etc., are not permitted.
- Expensive or highly fragile items should not be displayed. If these types of items are essential to the project, use photos or simulations.
- No active chemical reactions may be performed.
- No animals.
- Anything that is seen to be a safety risk will not be allowed.

Your display should ask and answer the following questions:

- ✓ What is the question I want to answer?
- ✓ What do I think the answer will be before I start? (HYPOTHESIS)
- ✓ What did I do to test my hypothesis? (METHOD)
- ✓ What materials did I use? (MATERIALS)
- ✓ What things did I change (VARIABLES) and what did I keep the same (CONTROLS)?
- ✓ What happened as a result of what I did? (RESULTS/DATA)
- ✓ What is the answer to my question? Based on my experiment does it match my hypothesis? Why or why not? (CONCLUSION)

Please do not get intimidated! There are hundreds of project ideas online. The purpose of this fair is to get the kids wondering, experimenting and having fun with science!

An example display is below:



Children's Museum Science Fair Project Evaluation

Student Name: _____ Project # _____

Project Title: _____

SCORING SCALE							
5	Above and Beyond Expectations	2	Meets Minimal Expectations				
4	Excellent Overall	1	Below Minimal Expectations				
3	Exceeds Minimal Expectations	0	Not Present				
PROJECT DISPLAY BOARD & STUDENT ORAL EXPLANATION CRITERIA							
Problem or Question is a clearly stated plan for investigation.		5	4	3	2	1	0
Background/Literature Search includes a bibliography of related research.		5	4	3	2	1	0
Hypothesis/Engineering Goal highlights expected answer to the problem or question.		5	4	3	2	1	0
Procedures include a sequence of easy to follow, detailed steps to do the experiment.		5	4	3	2	1	0
Methods identify variables and controls.		5	4	3	2	1	0
Materials are listed appropriately.		5	4	3	2	1	0
Data are presented in organized charts, tables, illustrations, or photographs.		5	4	3	2	1	0
Interpretation of Data is a clearly written description of the results/outcomes.		5	4	3	2	1	0
Conclusion summarizes the connection between the hypothesis and results.		5	4	3	2	1	0
Further Research includes logical extensions of the project.		5	4	3	2	1	0
Display is neat and follows the trifold diagram.		5	4	3	2	1	0
Written work is spelled correctly and grammatically correct.		5	4	3	2	1	0
Oral Presentation demonstrates a knowledge of project, is communicated clearly, and gives the audience the "I know what I'm talking about" feeling.		5	4	3	2	1	0
Bonus Points assigned for extraordinary effort, ingenuity, or innovation.		2	1	0			
Total Points		/65					

Comments:

Student Feedback Form

Student Name: _____ Project # _____

Judges' Points Tally:

Judge 1 _____

Judge 2 _____

Judge 3 _____

Total Points: _____

General Feedback Checklist:

Project Component	Science Fair Caliber	Needs Adjustment
Problem or Question		
Hypothesis		
Procedures & Methods		
Data Presentation & Interpretation		
Conclusion		
General Display		
Oral Presentation		

Additional Comments from the Judges: