

FIS 6th Grade Science Fair Special Instructions

- Sixth grade is required to participate in the Science Fair.
- Students will work individually.
- This project should reflect the student's ability and knowledge.
- All projects will require a display board and student interview with our judges.
- Students may either chose a Science Experiment or an Engineering Project.
- A Scientific Method entry should include the following parts:
 - Question – Research – Hypothesis – Experiment – Results – Conclusion
- An Engineering Design entry should include the following parts:
 - Problem – Research – Imagine – Plan -- Create – Test – Conclusion
- Rubrics detailing what is expected for each entry are provided on the following pages.

Remember – in science and engineering, experiments often turn out differently than expected, and inventions do not always work. That does not mean your project is a failure! Either try again, or write up the results, including what improvements might be helpful.

FIS 6th Grade Science Fair Rubric Scientific Method Entry

(Question – Research – Hypothesis – Experiment – Results – Conclusion)

Requirements	Level 3	Level 2	Level 1
Chosen Topic	Turned in day it was due.	N / A	Not turned in by due date.
Completed Project	Turned in day it was due.	N / A	Not turned in by due date.
Project Board			
Topic / Title	Clear and written as question.	Not written as a question.	No title
Question (Purpose)	Clearly states what the student wants to learn	The purpose is unclear	No question / purpose
Research (Bibliography or acknowledgements)	Acknowledgement or bibliography	Missing most sources	No bibliography / acknowledgement
Hypothesis	Stated correctly. <i>(I think that ... because...)</i>	Not correctly stated	None
Experiment (Materials)	All materials are listed	Not all materials listed	No space for materials.
Experiment (Procedure)	Listed clearly / in order.	Not clear / not in order.	None listed.
Results	Clearly stated, accurate to experiment. Includes clear tables and / or graphs.	Not clearly stated, or tables / graphs not clear.	Little to no results. No table / graphs.
Conclusion	States hypothesis proven or not proven. Details what happened and ideas about why results occurred.	No statement of hypothesis OR no details about results	Not provided.
Presentation			
Presentation (Knowledge)	Answered questions and explained further. Excited about project.	Answered most questions by reading directly from board.	Could not answer many questions.
Presentation (Oral)	Spoke clearly and looked at judges.	Did not look at judges.	Did not speak clearly or look at judges
Overall Project	Overall quality is neat, clean, and STUDENT clearly applied effort.	Neat in some areas, but needed greater effort.	Sloppy / many parts missing or thrown together.

FIS 6th Grade Science Fair Rubric Engineering Design Entry

(Problem – Research – Imagine – Plan -- Create – Test - Conclusion)

Requirements	Level 3	Level 2	Level 1
Chosen Topic	Turned in when due.	N / A	Turned in late
Completed Project	Turned in when due.	N / A	Turned in late
Project Board			
Topic / Title	Clear and visible	Not clear or visible.	No title
Problem	Clearly stated problem to solve.	The problem is unclear	Problem is not listed
Research <i>(Bibliography or acknowledgements)</i>	Provided for all sources.	Incorrect / Partial	Missing
Imagine	Several ideas to solve problem provided.	One idea provided	No brainstorming ideas
Plan	Detailed diagrams with materials listed	Incomplete diagram / materials list	No diagram or materials
Create (Model)	Invention or scale model provided	N / A	No invention or scale model.
Test	Detailed results provided, data tables or graphs	Results provided; no data tables or graphs	Not tested
Conclusion	How invention solves problem; ideas for improvement provided.	How invention solves problem; no ideas for improvement provided.	Not discussed; no improvements listed.
Student Presentation			
Presentation (Knowledge)	Answered questions, explained further. Excited about project.	Answered questions by reading directly from board.	Could not answer questions.
Presentation (Oral)	Spoke clearly and looked at judges.	Did not look at judges.	Did not speak clearly or look at judges
Overall Project	Overall quality of project is neat, clean, and STUDENT clearly applied effort.	Project could have used a greater amount of effort.	Missing parts or thrown together.