

**Annual Hartford Public Schools S.T.E.M. Expo/ Science
Fair**

Traditional Science Fair: 3-12 Judging Rubric*

Judge Number:

	Project Number	Grade	Science Project Title	SCORING					Comment
				10=Excellent	8=Very Good	6=Good	4=Fair	2=Needs Improvement	
				Scientific Thought	Creativity/ Inquiry	Visual Display	Student Oral Presentation	Total	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Judging should be based on the following categories, weighted equally.

Scientific Thought: Are the purpose and hypothesis of the project clearly stated? Are the dependent and independent variables correctly identified (cause and effect)? Is the experiment well designed (independent/dependent variables; changes one variable at a time, constant variables control group/fair test)? Is data gathered and organized (as demonstrated in a lab notebook, a table and/or graph)? Is the conclusion supported by data, directly related to hypothesis and discuss validity? Does discussion show implications for future study?

Creativity/Inquiry: Is this a creative, unique experiment that promotes inquiry? Were materials used creatively? Are measurement and data in table and graph format, with appropriate mathematical analysis?

Display and Component: Are all parts of the experiment complete (e.g., problem, hypothesis, materials, data, analysis, and conclusion)? Does the project show good workmanship, orderliness, neatness, good visuals (drawings, photos)? Does the experiment show evidence of outside research? Is the experiment procedure clear and understandable?

Student Oral Presentation: Does student understand science of project, can provide logical solutions to "what if" questions related to project; appropriate level of difficulty? Can student explain why it is a valid experiment; explain conclusions in relationship to independent and dependent variables? Is the oral presentation in a logical order? Can student explain research behind the project, originality of idea and experiment? Can student explain importance, connections to real life situations, and implications for society?

**Adapted from the Connecticut Invention Convention Judging Sheet
Form maybe used by School STEM Expo/Science Fair*