

Cumberland Valley Amateur Radio Club Award for Radio Excellence	Junior (7-8) Level	Project #	Project Name
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Component	Level 1	Level 2	Level 3	Level 4	Score
Exhibit Type	Partnered Exhibit 0			Individual Exhibit 4	
Display Presentation	Simple & visually balanced? Attracts & captures attention? Backboards, table, & artifacts have unity? Colors coordinated & suitable? Clear & understandable? 1 2 3 4 5 6 7 8				
Display Craftsmanship	Neatly and carefully done? Writing, grammar, & spelling understandable and correct? Lettering clear? Layout complete, logical, easy to follow, & self-explanatory? 1 2 3 4 5 6 7 8				
Research Notebook	Notebook or Journal is well organized? Entries dated? Clear, concise, & neat? Summarizes actual work, noting successes & failures? Includes bibliography? 1 2 3 4 5 6 7 8				
Experiment Investigation by rigorous control of variables to test one or more hypotheses	<p style="text-align: center;">New approach to</p> Duplicating known experiment to test previously confirmed hypotheses. Extending known experiment by changing its procedure, data collection, or analysis. design of (or modified application of existing) experiment with control of some variables. New experimental approach to a research problem with control of most significant variables. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				
Question/Title How well is the problem stated?	No question or title. 0	Incomplete or unclear question/title. 1	Complete, well-written. 2	Complete, articulate, & clear. 3	
Hypothesis Is it testable & verifiable?	No hypothesis. 0	Incomplete. 1	Present, but not completely testable. 2	Well-written and testable hypothesis. 3	
Design A plan to test hypothesis?	No overall plan. 0	Partial plan. 1	Sufficient plan. 2	Exemplary plan. 3	
Procedures A process to test hypothesis?	Experimental procedures not listed. 0	Incomplete or not listed step-by-step. 1	Complete and listed step-by-step. 2	Qualitatively & quantitatively listed step-by-step. 3	
Variables Are variables identified & controlled?	No variables listed or controlled. 0	Variables listed, but not controlled. 1	Variables listed, some controlled. 2	Variables carefully described & controlled 3	
Data Quantity of data, trials, methods?	No data collected. 0	Limited data displayed; Insufficient for valid conclusion. 1	Data recorded, displayed; hard to understand. 2	Data recorded, displayed; easy to understand. 3	
Conclusion Is there support for conclusions?	No conclusions. 0	Incomplete conclusions. 1	Apparent conclusions. 2	Significant, inherent, insightful conclusions. 3	
Total Score					