



Score _____/15

Room _____

Teacher _____

Name _____ Grade _____ Project Title _____

STEAM Fair - 4th & 5th Grade Scoring Rubric

	3 Master Scientist	2 Super Scientist	1 Scientist in Training	0 Not Evident
Scientific Thinking / Experimental Design Why did you create your experiment?	Student identified a purposeful question or problem which could be investigated: -experiment is based on a clear personal interest - formed a claim - clearly outlined procedures -clearly identified what stayed the same in each trial -clearly identified change - completed experiment at least 5 or more times -Clearly evident redesign of the experiment	Student attempted to follow all of the steps of the scientific process, but a few parts may need more detail or explanation. -experiment lacks personal interest -formed a claim -outlined procedure -completed experiment 3-4 times -no redesign	Several parts of the scientific process are lacking, such as: -no personal interest in experiment provided -the claim or problem was not testable had no personal -procedure was unclear -completed experiment 1-2 times	Student did not complete a project using the steps of the scientific process
Research Plan (Scientific Process) What is the procedure for creating your experiment?	All written parts are complete, including: -procedure is clear -researched the topic using 3 or more sources, -an abstract (summary);	All parts of the research plan are complete, but could use greater detail: -procedure is incomplete -researched topic using 2 sources	Some parts of the research plan may be incomplete or missing: - missing procedure -researched the topic using one source	Research plan not completed
Scientist's Log What evidence did you have to support your claim and reasoning?	Includes daily, detailed notes including:: -observations -identified experiment problems -correctly measured and displayed evidence -listed materials -redesign -detailed reasoning	Includes several days worth of notes including: -observations -identifies experiment problems -correctly measured and displayed evidence -listed materials -redesign -reasoning	Notes are minimal: -limited observations -lacks identification of experiment problems -little or no evidence was collected -materials list was incomplete -did not include a redesign -lacked a clear reasoning	Notes about the process are missing or severely incomplete
Visual / Digital Display How will you share your findings?	Visual/digitally produced display is; -neat, informative and strongly supports the research plan - includes 3 or more photos, graphs or diagrams -conforms to specified size -writing is neat, detailed and free of errors -highest quality work evident	Visual/digitally produced display is - neat - informative - includes at least 2 photos, graphs or diagrams -work is neat but may have some errors	Visual/digitally produced display is: -show minimal quality - frequent errors in writing - illegible writing	No visual/digitally produced display was submitted
Oral Presentation How will you verbally explain the project? (approx. 2-3 minutes)	Presentation is coherent and well organized; - provides clear explanation of problem/question -includes a detailed description of claim, procedure results and what was learned	Presentation is organized: -provides an explanation of problem/question -includes a description of claim, procedure, results and what was learned; but -may need some teacher prompting	Student has difficulty explaining the parts of his/her project and what he/she learned even with teacher prompting; presentation is not prepared.	Student is unable to explain his/her project or what he/she learned; or student did not share his/her project.

