Science & Engineering Fair
ScienceFairFun.org

Practice & Skills Assessment

Skill or Practice	Standard	Needs Work	Good	Great	Exceptional
Following Rules	• **Followed the rules** provided in the Rules Checklist.	2	4	6	8
Asking questions	• **Asked genuine questions** throughout their project. • **Their questions** guided what they learned and how their project progressed.	1 2 3 4 1 2 3 4			
Goal Setting & Planning	• Clearly and completely defined **realistic and measurable goals**. • Created a **detailed plan** to reach their goals.	1 2 3 4 1 2 3 4			
Developing & using models	• Did **background research** to develop or use an existing model. • **Applied existing models or methods** or developed their own to reach their goal.	1 2 3 4 1 2 3 4			
Analyzing & Interpreting Data	• **Used evidence, facts or data values** to interpret the meaning of their data. • Demonstrated **understanding of the mathematics** of their project (averages, ranges in values, data trends, project repeatability, etc.).	1 2 3 4 1 2 3 4			
Problem solving & critical thinking	• **Made changes to solve problems** and improve their project. • **Identified weaknesses, uncertainties or errors** in their project that they could address if they were to repeat or continue the project.	1 2 3 4 1 2 3 4			
Communication – oral	• **Used display items** during the oral presentation to explain their project. • **Respectfully and clearly explained** every part of the project and **thoughtfully answered interview questions**.	1 2 3 4 1 2 3 4			
Communication – non-verbal	• **Clearly displayed their data and procedure** using tables, graphs, sketches and/or photographs. • **Created a project display that was clear, concise and easy to** understand without their explanation.	1 2 3 4 1 2 3 4			
Creativity & Innovation	• **Created original ideas** from own experience or imagination. • **Used existing resources** to support and improve their project.	1 2 3 4 1 2 3 4			
Significance or importance	• **Reflected on** their learning experience and processes. • **Understands the importance** of their topic and their experience.	1 2 3 4 1 2 3 4			
Leadership & Teamwork	• **Took a leadership role** during their project. • **If a team**, then each team member clearly explained their part in the project. **If not a team**, then explained the role of their adult support person.	1 2 3 4 1 2 3 4			

Note: Science Fair Fun's assessment is based on assessing students' development of 21st Century Skills (Skills for Success) and K-12 Science & Engineering Practices as defined by the Next Generation Science Standards. Regional or state fair's assessment or judging may be based on different criteria.

Feedback & Highlights:

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