

GRADES K - 5

Judging Criteria
MAKER DIVISION
Engineering
Invention

ACADEMY OF SCIENCE – ST. LOUIS
SCIENCE FAIR

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Row: _____ Position: _____

Sequence
 Number: _____

| Project Elements | Description of Criteria | Possible Score | Score |
|--|---|----------------|-------|
| DISPLAY BOARD & LOGBOOK | | | |
| Components for judging can be either in log book or on poster | | | |
| Title & Description | Title of project and overview of project | 0 - 5 | |
| Asking Questions & defining problems | Define the problem that you are trying to solve. Identify the need and constraints. Student considers: what do I want to design; who is it for; what do I want to accomplish; what are the project limitations and requirements; what is my goal. | 0 - 5 | |
| Research the problem | Research the problem. Student clearly defines why project is important or “how can I make this better.” Student documents researching what products or solutions already exist, or what technologies might be adaptable for their solution. Shows evidence student understands project. Research is age-appropriate. Research can be interviews with knowledgeable adults as well as reliable internet sources and books. | 0 - 15 | |
| Imagine | Develop possible solutions. Student describes ideas for solution to the problem. Student describes “brainstorming” of possible ideas. | 0 - 15 | |
| Plan | Select one solution and make a plan to develop your project. Describe your plan. | 0 - 10 | |
| Create | Build a prototype. Describe (or show through photos) the design process. Student demonstrates an understanding of the subject matter or innovative/creative way of approaching their project. <i>(Note to student: Items that are valuable or valued by the student are not to be displayed – use photos/illustrations instead)</i> | 0 - 25 | |
| Test & evaluate prototype. Improve & redesign as needed | Test and evaluate prototype. Student describes testing process. Student explores possible improvements and redesign if time permits. If student does not have time for a redesign, should describe possible alternate ideas for success. Points will NOT be taken off for prototype failure as we encourage open-ended problem solving as students nurture their ability for creative innovative solutions. | 0 - 15 | |
| Signed Safety Form & guidelines | All projects are required to have a signed safety form (placed on the inside cover of log book). Students should also provide detailed descriptions on how they followed the safety guidelines in their logbook. | 0 - 10 | |
| Total Possible Score | | 0 - 100 | |