**GRADE LEVEL DIVISIONS**

**All Questions need to be answered in your Journal.**

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| Rubric for Grading Computer Science Projects | |
| Process | Score: 1 to 4 points |
| Did the student state a specific design goal or goals? Does the statement identify the product/program to be developed? Does the design goal identify the target user? The need the product/program will satisfy? |  |
| To what extent did the student conduct background research? Did this background research address all important facets of the project (science concepts, mathematical formulas, existing products/programs, etc.) |  |
| To what extent did the student identify meaningful design criteria? Did the student keep the target user in mind when identifying these criteria? Did these design criteria guide the student in building/programming, testing, and revising the product/program? |  |
| Did the student evaluate multiple approaches to solving the problem/filling the need? Can the student justify the chosen approach? Did the student prepare preliminary code or initial design schematics? |  |
| To what extent did the student develop a test plan for evaluation each iteration of the program/product? Did the student follow this plan when testing the initial program/product design and subsequent designs? |  |
| Did the student use information from testing the program/product to improve the product/program? To what extent did the student continue to redesign and retest the product/program until the design goal and design criteria were reached (e.g. through debugging, optimizing, etc.) |  |
| Does the student’s project notebook provide ample evidence of how the student used the engineering design process throughout the project? Is the project more than just gadgeteering? |  |
| Product |  |
| In *your* experience, to what extent does the student’s product/program represent significant improvements over existing products/programs? |  |
| Does the *student* understand the extent to which the product/program represents significant improvements over existing products/programs? |  |
| To what extent is the final product useful to the target user? Does the project fill a meaningful need? |  |
| Is the program code or product design clear enough that others would be able to replicate the students’ work? |  |
| Total: | /44 |
| Extra Credit for entering in STEM fair April 26th. |  |