***Engineering Derby: Tool Ingenuity* Judging Rubric**

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| **Trial 1: Obstacle Course Data and Observations** | **Y/N** | **#** | **Time** |
| A. **Time** it took the team to finish the course (max 10 min). |  |  |  |
| B. Did a student touch the ball with his/her body? (**Y/N**) |  |  |  |
| C. If yes, **how many** times? If no, go to row E. |  |  |  |
| D. **Multiply** the number from row C by 30 seconds. |  |  |  |
| E. Did the team finish the course? (**Y/N**) |  |  |  |
| F. If not, **how many** obstacles were not completed?  If yes, go to row H. |  |  |  |
| G. **Multiply** the number from row F by 30 seconds. |  |  |  |
| H. **Sum** the values for rows A, D and G. ***Shortest time wins***. |  |  |  |

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| **Trial 2: Obstacle Course Data and Observations** | **Y/N** | **#** | **Time** |
| A. **Time** it took the team to finish the course (max 10 min). |  |  |  |
| B. Did a student touch the ball with his/her body? (**Y/N**) |  |  |  |
| C. If yes, **how many** times? If no, go to row E. |  |  |  |
| D. **Multiply** the number from row C by 30 seconds. |  |  |  |
| E. Did the team finish the course? (**Y/N**) |  |  |  |
| F. If not, **how many** obstacles were not completed?  If yes, go to row H. |  |  |  |
| G. **Multiply** the number from row F by 30 seconds. |  |  |  |
| H. **Sum** the values for rows A, D and G. ***Shortest time wins***. |  |  |  |