## Score Sheet for 2016 Fluor Engineering Challenge

## Sorting points

Your goal is to sort 6 mm spheres into cup A and 12 mm spheres into cup B. First, count the beads that landed in each cup. Do not count spheres that get stuck in the machine or do not land in a cup.

| Number of 6 mm beads in cup A |  |
| :--- | :--- |
| Number of 12 mm beads in cup B |  |
| Total number of correctly sorted beads |  |
| Number of 6 mm beads in cup B |  |
| Number of 12 mm beads in cup A |  |
| Total number of incorrectly sorted beads |  |

Then, use this equation to calculate your sorting points. Fill in your values from the table to do the calculation:

$$
\begin{aligned}
\text { Sorting points } & =200 \times(\text { Correctly sorted beads }- \text { Incorrectly sorted beads }) \\
& =200 \times(
\end{aligned}
$$

## Material points

Count how many cups, popsicle sticks, and sheets of paper you used to build your machine. Do not count the 3 cups that you used to pour and collect the spheres.

$$
\begin{aligned}
& \text { Material points }=150 \times \text { (\# of cups used) }+30 \times \text { (\# of popsicle sticks used) }+75 \times(\text { sheets of paper used) } \\
&=150 \times \ldots+75 \times \ldots
\end{aligned}
$$

## Time points

Use a stopwatch to time how long it takes from when you start pouring the beads until the last bead falls into a cup or out of the machine.

$$
\begin{aligned}
\text { Time points } & =50 \times \text { time in seconds } \\
& =50 \times
\end{aligned}
$$

## Total Score



