

Date:1/8/15

## Wednesday Challenge Form

Group Members: Ara david and sumin

**Problem Statement:** Calculate the score for a possible ending Round for the 2015 robotics competition.

**Approach:** There are many ways to calculate the score for the Competition. The best way, that we decided would be to break up the Score into what each structure would give and add it all together in the End. We ended up making a formula to use to make the process easier. There were three main types of structures that can be made from the Materials given. A tower with a can, a tower without a can, and Extra pool noodles. A tower with a can come with a noodle. The Equation given is  $(6x+6y)$  for the tower with can and noodle. ( $x$ =number of layers and  $y$ =number of pool noodles) the next equation Is for towers without cans  $(2x)$  and the last was for extra pool noodles  $(y)$  You perform the action for each equation however many times you Must and you get an answer. Hat is the score.

**Solution:** we won the challenge by counting 96 total points.

**Lessons Learned:** making a mathematical model Helps with the calculations.