



**Fall Harvest 2016 APEGNB  
Pumpkin Fling  
Mini-Trebuchet Contest  
September 24th, 2016**

**Design Guidelines**

- Wood frame can be modified.
- Scoop and ballast bucket can be customized.
- The counterweights must be removable from their holder or bucket.
- No springs or rubber bands.
- No pulleys can be used.
- All counter weight must be placed in bucket.
- No electronic assistance or air pressure is allowed.

**Competition Rules**

- Only one trebuchet may be submitted per ASD-N school.
- Teams can be comprised of any number of students (minimum 2). Teams must also have a Team Mentor (teacher, parent, community member, etc.)
- During the mini-trebuchet contest, schools will have three attempts to hit a target 10-20 metres from the launch zone with a tennis ball.
- Projectiles, standard measuring devices and weight scales will be on hand the day of the pumpkin fling.
- Participants must bring their own counterweight. This distance may change during the contest so the ballast of weight should be easily removable. Use removable chains, sand or other types of ballast to adjust weight quickly.
- The event will happen rain or shine, there will be no do overs or compensation due to weather conditions.

**Scoring**

- Teams will be called to load their trebuchet into the ASD-N Launch Zone. Teams will have 5 minutes to take 3 shots.

- If the target is not hit, prizes will be awarded to the schools that come closest to the target.
- All trebuchet adjustments (or repairs in the case of breaks) must take place within the 5 minute allotted time. There are no time outs or do overs!
- Each team will be scored on the one shot that is closest to the bull's eye! It is not a culmination of the 3 shots.
- In the event of a tie, the finalists will have 2 minutes to take one shot. The closest to a target will decide the winner.

### **Safety Guidelines**

- All children and staff mentors in the Launch Zone require eyeglass protection.
- If a trebuchet is deemed unsafe or to have illegal modifications it will be disqualified.
- Only 4 students and 1 adult are permitted in the ASD-N Launch Zone. One person will be designated as the launcher, all others must stand back 2 meters.
- It is your responsibility to make sure that you understand the rules, and that your trebuchets meet the requirements.

### **Prizes**

\* STEM prizes include:

Grand prize	\$1000
Second prize	\$500
Third prize	\$250

\*\* School Spirit - STEM Prize Package will be given for school spirit.

### **Additional Information**

All teams must register by September 19, 2016.

Mini-trebuchet launch schedule will be posted online on September 20, 2016.

If you have any questions, contact [jamieo@nbed.nb.ca](mailto:jamieo@nbed.nb.ca)

(\*Prize money and medals will be donated to winning schools)

(\*\*School Spirit STEM prize will be awarded based on decorating/embellishing your trebuchet, best team costumes/uniforms and enthusiasm.)