

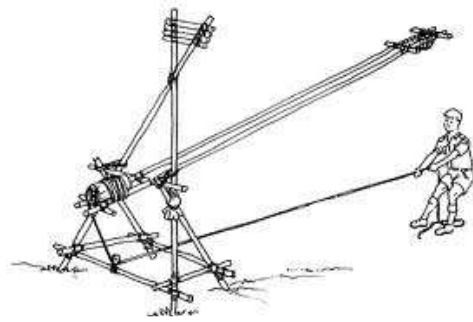
Troop 22 Whitman

<http://www.t22whitman.org>

During the November campout we will have our Punkin Chunkin competition. Pumpkin Chunking is the sport of hurling a pumpkin by mechanical means for distance. The devices most often used include slingshots, catapults, mangonels, centrifugals, trebuchets, and air cannons.

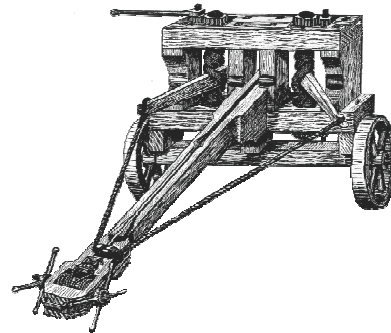
In our version of the contest we will use the mechanical devices and not air cannons. There are three primary technologies we can use are:

The catapult is a winched-down bucket that stores its energy in either the tension springs or the axle itself. When released it shoots back to the vertical position and hurls the object forward.



The ballista is a very large crossbow. Ropes are used to store the tension of the arms.

Both the catapult and ballista work by storing tension either in twisted ropes or in a flexed piece of wood (in the same way an archery bow does, but on a larger scale).



A trebuchet is a kind of catapult that gets its energy from a raised counterweight that is attached to one end of the axle. On the other end is the sling holding the intended ammo. When the counterweight is dropped, the other end of the axle shoots upwards into a vertical position. The sling then releases the ammo, launching it towards the target.



You can get more information at <http://science.discovery.com/tv/punkin-chunkin>

Rules for the Chunk

The rules for the build are listed here:

- Machines must have a drawn plan to be entered
- All machines must be made prior to the event. The parts may be from trees (roughhewn) or dimensional lumber. Fasteners can be lashings, bolts, or other mechanical fasteners.
- The machine must be able to be operated by the scout.
- Safety equipment must be used and incorporated into the design.
- The device must be free-standing.
- The device must be assembled on site at the event.
- No explosives are allowed.
- Machines can have either springs, rubber cords, counterweights, rope or any other device that use the stored power of one human being.



The divisional rules are:

- There will be 2 divisions: Adult and Scout.
- Teams will be comprised of a minimum of 2 people.
- A winner will be chosen in each division.

Here are the Chunk event rules:

- Pumpkins will weigh between 8 and 10 pounds.
 - All pumpkins fired must remain intact until they impact the ground to obtain an official measurement.
 - No part of the machine shall cross the firing line.
 - No wadding can be used in the machines (including straw, foam, metal, cloth).
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Official Entry Form 2013

**Troop 22
Punkin Chunkin'
2013**



Machine Name: _____

Team Name: _____

Member: _____

Member: _____

Member: _____

Member: _____

Member: _____

Member: _____

Member: _____

Member: _____

Chunk #1 Distance: _____

Chunk #2 Distance: _____

Chunk #3 Distance: _____

Average Chunk Distance: _____
