OBJECTIVE
Launch a 1-2 pound pumpkin from a hurling machine (ballista, trebuchet, mangonel, etc). Basic materials will be provided to each team, including base and swing arm. The team that hurls their pumpkin the furthest, is the winner.

PARTICIPANTS
Teams consist of family members of all ages who want to work together have fun! Teams must register in advance.

RULES
- All catapults will fling small pumpkins weighing 1-2 pounds provided on the day of the event. The pumpkin may not be altered once the team receives it.
- All catapults will be launched on a grass field. They must sit on the ground. No part of machine may cross the firing line.
- Teams may add any components needed to meet competition objectives.
- The catapult and all components must weigh less than 50 pounds.
- No part of the catapult can extend over 6 feet high (including the arm when fully vertical). The sling on a trebuchet is not measured.
- No explosions or air pressure may be used to assist the performance of your catapult. The energy used to power your catapult must be provided by the device itself.
- Your catapult will be inspected for safety and adherence to the rules before the contest.
- You may not make changes to the catapult after it has been safety inspected.
- You cannot change out the arms or slings. You are allowed to adjust weights or torsion.
- The judges’ rulings are always final.

CATEGORIES
DISTANCE
- Each team will get 5 minutes to complete three launches.
- The best launch will be used as your score.
- The longest launch wins.

GROUPING
- Each team will get 5 minutes to complete three launches.
- The object is to have all three shots land as close together as possible.
- The team whose three shots land closest together wins.

ACCURACY
- Each team will get 5 minutes to complete three launches.
- There will be a target 60 feet from the launch area. The team with the most hits wins.
- If multiple teams hit the target the same number of times, then those teams will have a shoot-out: 3 shots- team with most hits wins.
- In the event there is still no clear winner…
  Sudden Death: Target moves back 10 feet, 1 shot per team.
- In the unlikely event that no team hits the target, then we will all leave greatly saddened and try harder next year.

QUESTIONS - STEM@DIXIE.EDU

NOVEMBER 20, 2021 PICK UP SUPPLIES FOR ULTRA PINewood DERBY