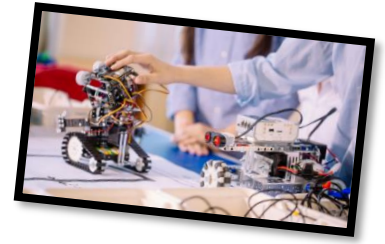




STEM Wars Robotic Event

"Full volume"



There will be **TWO** divisions for the robotic event this year.

Division 1: 0-12" Footprint bots(Plastic or Metal)

Division 2: 12"-18" Footprint bots(Unlimited)

The event will be a **2 on 2 event**. Partners for a team can be chosen prior to the event as long as both will be prepared for the day of competition. If a team does not have a partner, one will be drawn randomly the morning of the event with another school who also needs a partner.

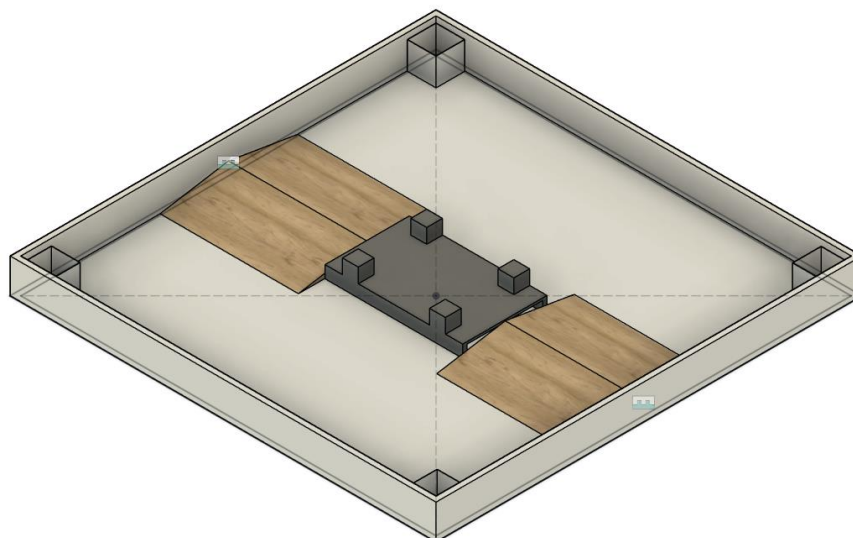
- ❖ Each team planning to complete must complete a **pre-registration google form** 1 week in advance of the competition to allow coordination of brackets to be completed prior to the event.

The event is a **single elimination** tournament in each division.

- If you are not prepared to compete when your team's round is to begin, you will forfeit the match.

Constraints

- Each team will start on their teams' side but will score in the opposing side from which they start on. (see diagram attached)
- There will be two ramps robots can cross to get to the opposing side.
- Defense and offense can be played. A defensive player can hold/trap another player for a MAX of 5 seconds then both must release for 5 seconds.
- There will be 7 tennis balls placed on the centerline at the start of the match each team can access when the match begins.
- There will be 12-1.5"x1.5"x1.5" blocks randomly displaced on each team's side for scoring in their goals. 12 will be blue, the other 12 will be red.
- Matches will consist of **2 minutes** each at which time bots will stop and points will be tallied.





Scoring & Dimensions



- There will be 4 bins in each corner. Each team will score in the bins opposing their starting position.
- There will be 4 pillars (5.5"x5.5"x 5" tall) sitting on the center platform for stacking on.
- **Blocks scored in a bin are 1pt**
- **Balls scored in a bin are 3 pts**
- **Blocks placed on one of the 4 interior pillars scores 2pts.**
- **All blocks stacked count 5 points each. (ex. 3 blocks stacked=15pts)**
- **Blocks and balls only count if they remain stacked at the end of the match. (Your opponents may knock your blocks off once stacked)**



If there is a tie at the end of 3 minutes, a 1 minute overtime will continue to break the tie.

Questions or comments email: dmccray@clake.org

