



STEM Wars 2025 Robotic Event – Full Volume

Event Coordinator:

- Dan McCray
- dmcclay@clake.org
- Please contact him with any questions.

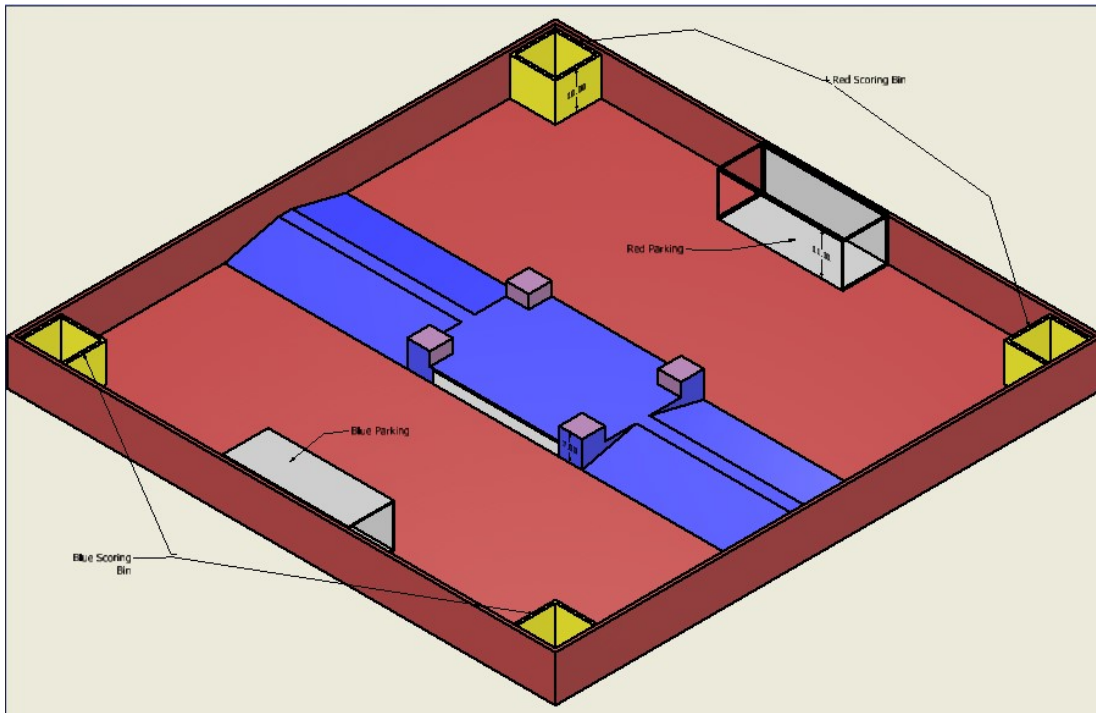
- There will be TWO divisions for the robotic event this year.
 - **Division 1:** Plastic bots (i.e....Lego, vex iq)
 - **Division 2:** Metal bots (i.e....VEX V5)

*(In the event that there are not enough robots in one of the divisions to compete, there will be one division with both plastic and metal with **no physical interaction allowed.**)*

- 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 a 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.
- The event is a **double elimination** bracket 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 robot footprint not to exceed 14"x14".
- 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 teams side for scoring in their goals. 12 will be blue, the other 12 will be red.
- Matches will consist of 3 minutes each at which time bots will stop and points will be tallied.



Scoring

- There will be 4 bins in each corner. Each team will score in the bins opposing their starting position.
- There will be 4 pillars(6"x6"x7"tall) in the center for stacking on.
- **Blocks scored in a bin are 1pt**
- **Balls scored in a bin are 2 pts**
- **Blocks stacked on one of the 4 interior pillars scores 2pts.**
- **Blocks and balls only count if they remain stacked at the end of the match.**
- **The top block in a series of stacked blocks gets 5 pts.**

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

