



Discovering STEM talent
Events | Competitions | Conferences

ROBO-SPRINT

(Junior Category)

AGE
UNDER
12
YEARS

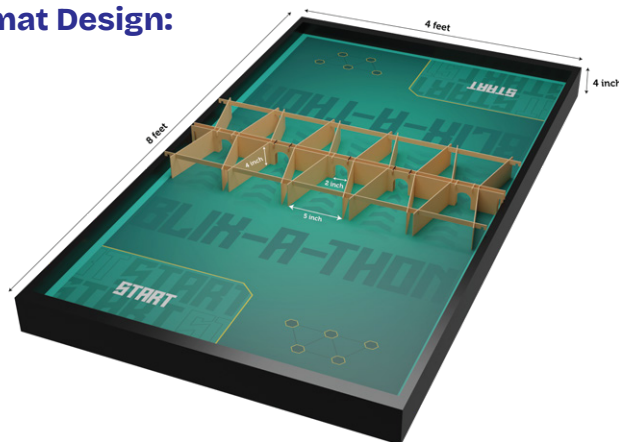
&

AGE
UNDER
15
YEARS

Challenge:

- In this Junior arena challenge, participants need to pass as many balls as possible into the opponent's area (similar to an air hockey game).
- Each team will start with 5 balls in their court. The team with the fewest balls in their court at the end will win the round.
- The time limit for the challenge is **3 minutes**, so plan well to move closer to victory.

Arena mat Design:



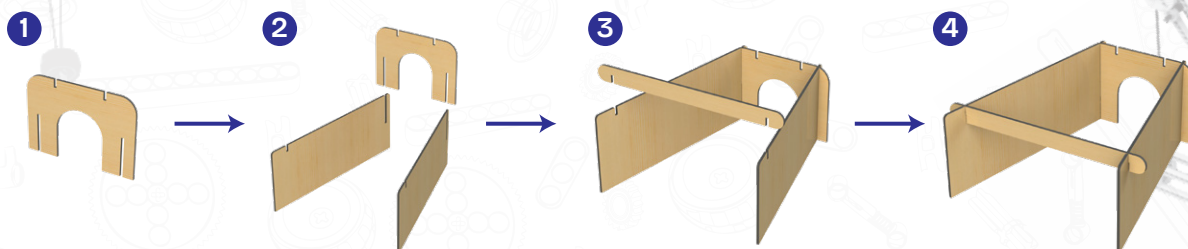
How to practice

- To make the arena boundaries, use the dimensions given on the mat.
- To set up the Junior arena, first assemble the passage area as per the instructions given below.
- The robot will be placed at the start position marked in the arena.
- The robot will be controlled using a wired transmitter and receiver.



- The bot should be able to move left, right, forward, and backward, and it must also include a pushing mechanism.
- All required practice elements will be provided in the kit and will remain the same on the event day

Steps to assemble



Bot Size (Included in Game Rules):

The entire bot, including arms, wheels, and any other components, must not exceed 1.5 × 1.5 feet. Exceeding this limit will lead to disqualification.

Note:

Participants must replicate the exact dimensions at home/school and practice on a similar mat.

Rules & Regulations:

- 1 Each round will last for 3 minutes.
- 2 Each team can have up to 4 members, excluding mentors. Only one mentor is allowed per team.
- 3 If there is any functional error (e.g., the bot breaks), any team player may take the bot out, fix it, and restart from the START area.
- 4 Players must operate the bot from outside the arena.
- 5 Balls must be passed through the passage only.
- 6 The referee's decision will be final at all times.
- 7 Any interference with the opposing team will result in immediate disqualification.
- 8 Each ball in the opponent's court = 5 points.
Example: If your opponent has 8 balls in their court at the end, your total score will be $8 \times 5 = 40$ points.
- 9 Score more points than your opponent within the given time to win.
- 10 If the match ends in a tie, an additional 2-minute round will be played.