

Blix™

Blix-A-Thon

Discovering STEM talent
Events | Competitions | Conferences

x **WSR**
WORLD STEM & ROBOTICS OLYMPIAD

ROBO-PRECISION (Senior Category)

MINIMUM AGE
12 YEARS
MAXIMUM AGE
UNDER 16 YEARS

Challenge:

- Participants must build a tower of up to 5 levels by stacking cups within the designated area.
- Only the bot may be used to stack the cups; manual assistance is not allowed.
- Each team will have 5 minutes to complete their tower.
- At the end of the time, the team with the tallest and most stable tower will be declared the winner

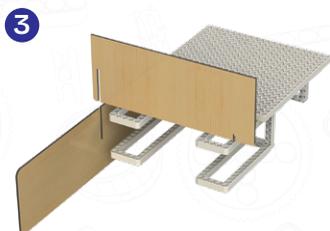
Arena mat Design



How to practice

- Make the arena boundaries using the dimensions given on the mat.
- The tower must be built on P21 x 21 (Platform).
- The platform must be placed on PU5 x 7 only, which will provide the required height for the tower.
- The cups must be stacked on the numbers marked in the arena.
- The distance between each cup's position will be 15 cm.
- The bot can pick and drop the cups and can move left, right, forward and backward
- All required practice elements will be provided in the kit and will remain the same on the event day.

Steps to assemble



Note:

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

Bot Size (Included in Game Rules):

The entire bot, including arms, wheels, and any other components, must not exceed **2.5 × 2.5 feet**. Exceeding this limit will lead to disqualification.

Rules & Regulations:

- 1 Each match will last **5 minutes**.
- 2 Format: **1 vs 1 challenge**.
- 3 Each team may have up to **4 members** (excluding 1 mentor).
- 4 Bots must not exceed **2.5 × 2.5 feet** in size.
- 5 Only official **competition kit components** may be used.
- 6 A tower is considered valid **only if 2 or more cups are stacked** (a single cup does not count).
- 7 Cup Points (based on size):
 Yellow = 10 Green = 20
 Blue = 30 Sky Blue = 40
 Purple = 50
- 8 **Final Score Formula:**
Total Cup Points × Tower Level Multiplier (1 to 5).
- 9 In **case of a tie**, an additional **2-minute round** will be played.
- 10 Any **interference with opponents** will result in immediate disqualification.
- 11 The **referee's decision will be final** at all times.

