

Arrow Maze Challenge Rules

1 Challenge Overview

The Arrow Maze Challenge is a robotics competition designed to cultivate students' computational thinking and problem-solving competencies. Participants must demonstrate creativity, spatial reasoning, and team collaboration to complete onsite-released tasks within stipulated time limits.



2 Division and Age Requirements

- Team size: 2-4 players.
- Age limit: ≤ 7 years.

3 Construction Specifications

Category	Requirements
Platform	Electronics restricted to: LEGO® 9686, WeDo 45300, SPIKE Essential 45345. Non-electronic components unrestricted.
Control Type	Remote-control
Max Volume	≤65,030 cm ³ (post-activation expansion permitted)
Controllers	1 controller per gripping mechanism
Sensors	Type/quantity unrestricted
Drivetrain	Type unrestricted

4 Field & Props

- Arena Specifications**
 - Maze shape square each side
Like the picture
 - The inside path unknown



5 Rules & Scoring

1. **Time Limit:** 3 minutes per attempt
2. **Objective:** finish the maze in the time
3. **Scoring:** 10 points per correct step (each right square)
4. **Completion Criteria:**
 - Time bonus: 1 point/sec for remaining full seconds after task completion
 - Formula: `Total Score = Component Score + Time Bonus`