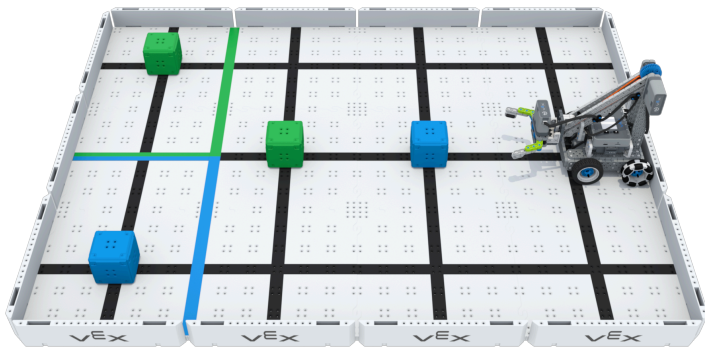


VEX IQ Challenge Activity



Speed Stack

Drive your Clawbot to stack and score cubes in their scoring zones in the fastest time possible!

How to Play

1. Check your Field and Robot Setup:

- Set up a 3'x4' Field with your Clawbot as shown above:
 - A blue and a green IQ Cube should be affixed in the scoring zones. Use 4 pins per cube to attach them to the Field.
 - Place a blue and green IQ Cube along the centerline.
 - Place your Clawbot in the starting area, with the back wheels against the wall.

2. Speed Stack Rules:

- A driver will use the Controller to drive their Clawbot to score both cubes in their matching scoring zones in the fastest time possible.
- One cube must be stacked in the scoring zone in order to complete the match.
- A cube is considered 'scored' when any part of it is in the matching colored scoring zone. A cube is considered 'stacked' when it is freestanding on top of another cube in the matching colored scoring zone.
- Start the timer when the robot begins moving. The timer stops when the second cube is correctly scored and the robot is no longer touching it.
- The team's robot that scores both cubes, with at least one cube stacked, the fastest, wins!

Pro-Tip

Consider the trade off between speed and precision, as you develop a strategy.

- In a timed trial competition, it can be tempting to try to go as fast as possible the whole time. However, when trying to complete precision moves, like stacking a cube, you may accomplish the task faster when your robot is moving slower.