VEX IQ Challenge Activity

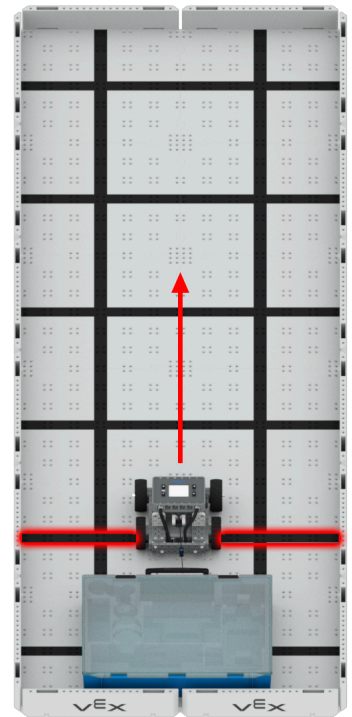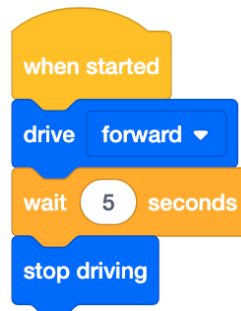
Robot Tractor Pull

How far can you haul an IQ Kit with your Basebot?
Pull an IQ Motion Bin as far as possible in 5
seconds!

How to Play

1. Get Set Up to Play:

- Open the BaseBot (Drivetrain 2-motor)
template and create this project in
VEXcode IQ. You may need to change
the parameter in the [Drive] block from
'forward' to 'reverse,' depending on
where you place your rope attachment.

- Download the project to your BaseBot.

- Create a rope attachment and add this to your BaseBot. Then
connect the IQ Motion Bin to your attachment with a 24x Pitch
Rope.

- Set the BaseBot on the Field so that the back tires are behind
the second horizontal line, and place the IQ Motion Bin against
the back wall of the 2x6 Field.

2. Robot Tractor Pull Challenge rules:

- Start the project on the Brain. Once the BaseBot wheels stop
moving, measure the distance from the starting line (marked in red on the image to the
right) to the front edge of your BaseBot. The team with the longest distance wins!

Pro-Tip

Record information from each team.

- Which attachment did each team use, and where did they place it on their robot?
- How far were they able to pull the bin?
- Do you notice any similarities in attachment design or placement among the robots
that were able to pull the bin the furthest?