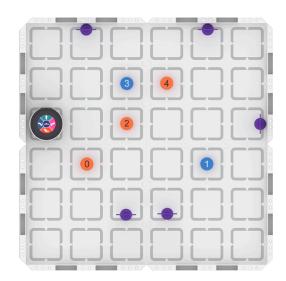
✓E×*AIM* Activity



Match & Dispatch

Use Button Coding to move the VEX AIM Coding Robot to deliver numbered barrels to the matching AprilTag ID!

Step by Step

- 1. Set up the Field as shown above.
 - Number five barrels from 0 to 4, (one number per barrel). Place the barrels on the field, with no more than two barrels in a single row.
 - Place five AprilTags on the field, with no more than two on any single side.
 - Place the robot at the Start Position on the left side of the field, facing a barrel in the same row.
- 2. Use Button Coding to code the robot to place each numbered barrel in front of its matching AprilTag ID.
 - Plan a path to pick up the barrel and move to the matching AprilTag.
 - Code the robot to follow that path, and face the AprilTag.
 - Use the kicker to place the barrel in front of the AprilTag.
 - Continue until you have moved all barrels to their matching AprilTags! Complete the project using as few behaviors as possible.
 - The robot that uses the fewest behaviors wins! In case of a tie, the first to complete wins!

'LEVEL UP'

 Delivery Order Challenge - Deliver the numbered barrel to the matching numbered AprilTag IDs in the given order: 0→ 1 → 2 → 3 → 4. The fastest time wins!

Pro Tips

 Develop a strategy to move barrels more easily. To improve efficiency, always choose the barrel that requires the fewest behaviors to pick up on the field.

Standard: CSTA 1B-AP-11: Decompose (break down) problems into smaller, manageable subproblems.