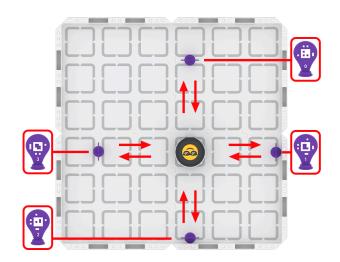
✓^E×*AIM* Activity



Direction Drills

Use the One Stick Controller to drive the VEX AIM Coding Robot to complete the four-direction reaction drill.

Step by Step

- 1. Set up the Field as shown in the image above.
 - Outline four destinations on the tiles. The four together will make a plus sign shape (+).
 - Place an AprilTag beside each of the four destinations.
 - Position the robot in the center of the four destinations facing AprilTag ID 0.
- 2. Designate one person as the caller to announce one destination at a time. Each instruction corresponds to one designation indicated by an AprilTag ID. For example: "Destination 1!" would align to AprilTag ID 1. The caller will give four instructions in a random order.
- **3. Designate one person as the driver.** Use the Drive mode to drive the robot to the destination based on each instruction from the caller, then drive back to the starting location.
 - Drive the robot to the called destination without touching the AprilTag.

'LEVEL UP'

 Memory challenge - Have the caller announce all four instructions in a random order at the beginning. The robot must complete all moves in the correct order. The fastest time wins!

Pro Tips

- Push the joystick forward along Axis 1 to drive the robot forward.
- Pull the joystick backward along Axis 1 to drive the robot in reverse.
- Press the Right button to slide the robot sideways right.
- Press the Left button to slide the robot sideways left.

Standard: CSTA 1B-CS-02: Model how computer hardware and software work together as a system to accomplish tasks.