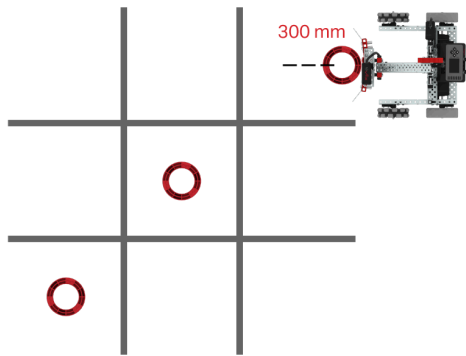




Tic Tac Toe

Get three in a row!

Step by Step

1. You will need three rings for this activity. Place tape on the floor as shown in the picture above to make a tic tac toe board. Each square should be 300mm x 300mm.
2. Build the [Clawbot](#) and open the Clawbot (Drivetrain 2-motor) template in VEXcode EXP. Make sure the claw is open and the arm is down, so the robot can push the rings. Place a ring in front of the claw.
3. Create the project on the right in VEXcode EXP.
4. [Download and run](#) the project. Observe the movement of the robot, then move it back to its starting position. This will be a practice run. If the ring is pushed too far and goes into the next square in the row, start the Clawbot a little further out from the board.
5. Change the project to have the Clawbot move the ring to two more places on your board, until you have three in a row.

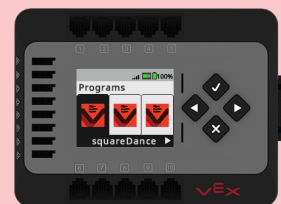


'LEVEL UP'

- **4 X 4 Tic Tac Toe** - Add one extra row and one extra column. How does this change the game?
- **Challenge a Friend!** - Grab three more rings of another color and turn the game into a two-player version!

Pro Tips

- The EXP Brain can store up to 8 user programs.



Standard: ISTE (1.4) Innovative Designer - 1.4a: Students know and use a deliberate design process for generating ideas, testing theories, creating innovative artifacts or solving authentic problems..