

CODING ROBOT ACTIVITY

OBSTACLE CHALLENGE

After you've built and learned the basics of how to program your Coding Robot, try the following challenge:

1. Find a flat, open space where your Coding Robot has plenty of room to move.
2. Build an obstacle course for your robot by positioning some objects. These objects can be anything around your home like a shoe, soda can, or toys. Another option is to draw out a maze on a sheet of paper. Feel free to get creative!
3. Decide on a starting point for your robot. It can be marked with masking tape or a coin. You will always begin a challenge at this starting point.
4. Grab some paper and make a hypothesis – How many forwards, rights, and lefts will you need to dodge your obstacles? Remember, each click is 0.5 seconds, so you can roughly calculate how long it will take your robot to get from one point to another. It might take a few tries, but don't worry, trial and error is all part of learning through experimentation!
5. Bonus challenge - See if you can avoid all of the obstacles AND return to your starting point.

