

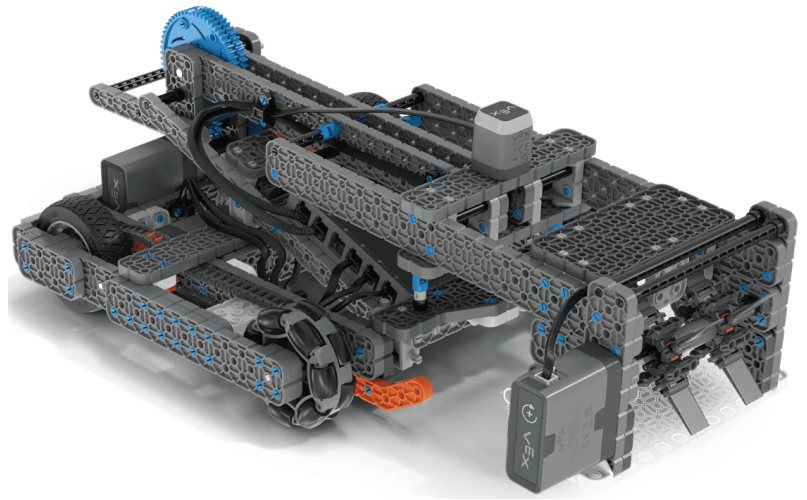
VEX IQ Level Up : Session 2 - Building Station

Activity: Build the Level Up Hero Bot, Flop

The Hero Bot, Flop, will be built in stages so each person on the team gets a chance to build. *Check each and every step as it is completed in the build instructions to ensure Flop is built correctly.*

Complete the build instructions based on where the previous team members left off.

[Build Instructions for Flop can be found here.](#)



- **Stage 1:** Steps 1 through 39
- **Stage 2:** Steps 40 through 79
- **Stage 3:** Steps 80 through 117
- **Stage 4:** Steps 118 through 152 and testing the robot.
Test Flop by driving the robot to pick up and place a Bean Bag in a floor goal.
 - Follow these steps to [pair the Controller and Brain](#).
 - Then, use the [Built-In Drive Program to drive Flop](#).

Make sure all pieces stay together and the robot moves successfully.

Feeling Stuck?

- Use the [IQ Printable Parts Ruler](#) to help you locate the correct size of pieces in the kit.
- Reference the [IQ Competition Kit Parts Poster](#) to help you as you are building.

Discussion Questions While Building

- What do you think the section of Flop you are building will do?
- What is one “pro-tip” you would give to a group building another stage of the robot?
- How do you think Flop can pick up and score Bean Bags on goals of different heights?

Activity Checklist

- ☐ Each team member built part of the robot.
- ☐ Stage 1 steps complete
- ☐ Stage 2 steps complete
- ☐ Stage 3 steps complete
- ☐ Stage 4 steps complete
- ☐ Flop drives, picks up, and scores a Bean Bag.