

## Special Moves Kit Lesson 7

All Together Now!

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Time for a challenge that includes all the types of Color Codes. Allow students to work together and combine the magnet boards to make a larger surface.

Students need to create a cross-country race for Ozobot that includes at least the following:

- 3 Speed codes
- 2 Direction at Intersection codes
- 2 Special Moves
- 1 Timer or Pause
- 1 Line Switch
- 1 U-Turn
- 1 Win/Exit (Play Again)

Start by using a pencil and paper to plan the course. Guide students step-by-step to draw the pathway, add each type of code, check that they used all the codes needed, test the course, debug, and iterate. While creating the pathway, keep in mind the requirements for the special moves codes and line switch codes.

As an extension, build obstacles the bot needs to go around or through, and then create a play-by-play commentary of the bot completing the course.