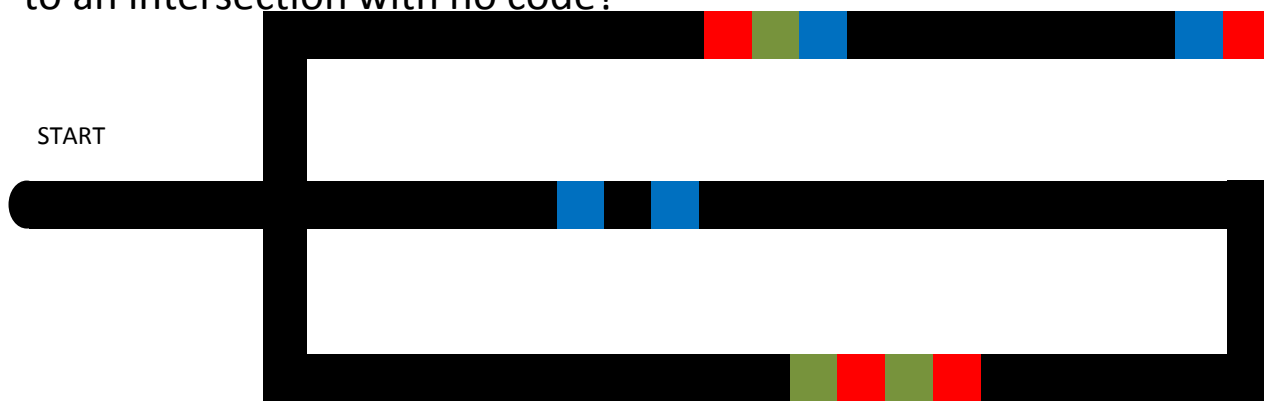
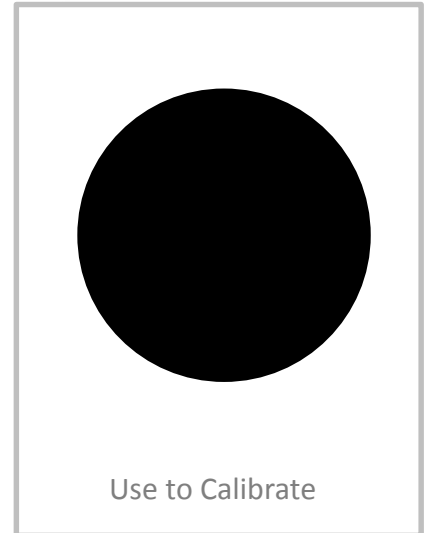




- 1) For pre-programmed mode, hold down the power button on the side of Ozobot until the LED light turns on.
- 2) To Calibrate: Press the power button for 2 sec until Ozobot flashes white. Release button. While Ozobot is flashing white, place on black calibration circle. Calibration is successful when Ozobot blinks green.
- 3) Create a path for Ozobot to follow by drawing a thick line with a black marker.
- 4) Give Ozobot coded instructions by drawing a path with color codes.
- 5) What path does Ozobot choose each time it comes to an intersection with no code?



### Color Coding

Ozobot is a line-following robot that uses photo sensors to detect a dark line against a white surface. It turns its motors to stay centered on the line. Ozobot recognizes multiple colors, and is pre-programmed to perform actions based on color codes. Users can program new codes using OzoBlockly programming.

## NAVY NOTES



The Navy uses unmanned surface vehicles for mine hunting missions. These robots safely find and neutralize underwater mines using sonar, acoustic and magnetic signals.

# ozobot



Color code reference chart

## OzoCodes

### SPEED



SNAIL DOSE



SLOW



CRUISE



FAST



TURBO



NITRO BOOST

### DIRECTION



GO LEFT



GO STRAIGHT



GO RIGHT



LINE JUMP LEFT



LINE JUMP STRAIGHT



LINE JUMP RIGHT



U TURN



U TURN (LINE END)

### COOL MOVES



TORNADO



ZIGZAG

OZOBOT & GAMEZONE - ©

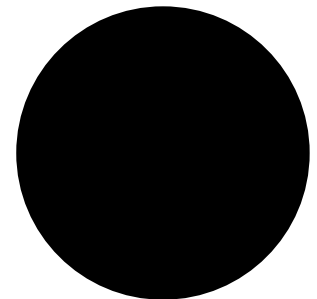


SPIN



BACKWALK

· COPYRIGHT © 2015 · EVOLVE, INC.



Use to Calibrate

# ozobot



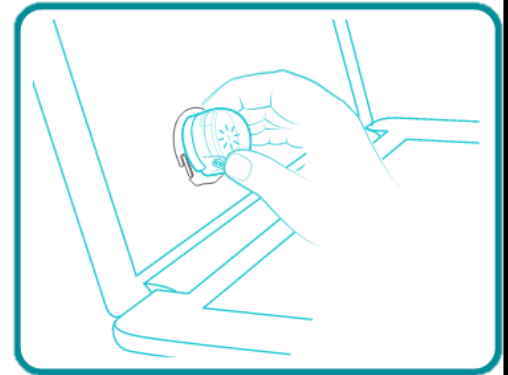
## OzoBlockly

- 1) Go to [ozoblockly.com](http://ozoblockly.com) on your computer or tablet and select Get Started.
- 2) In the OzoBlockly Editor, choose a toolbox mode (1-5).
- 3) Drag and drop blocks to create your program.
- 4) Select a tab on the right to check out Examples or try a Challenge.
- 5) Once your program is ready, click Load Ozobot at the bottom of the screen.

**CALIBRATE:** Press the power button for at least 2 sec until Ozobot flashes white. Release button. While Ozobot is flashing **white**, place against the white spot on screen. Calibration is successful when Ozobot blinks **green**.

**LOAD:** Power Ozobot back on. While holding against the white spot on the screen, click Load. Ozobot will be **green** until colors stop flashing.

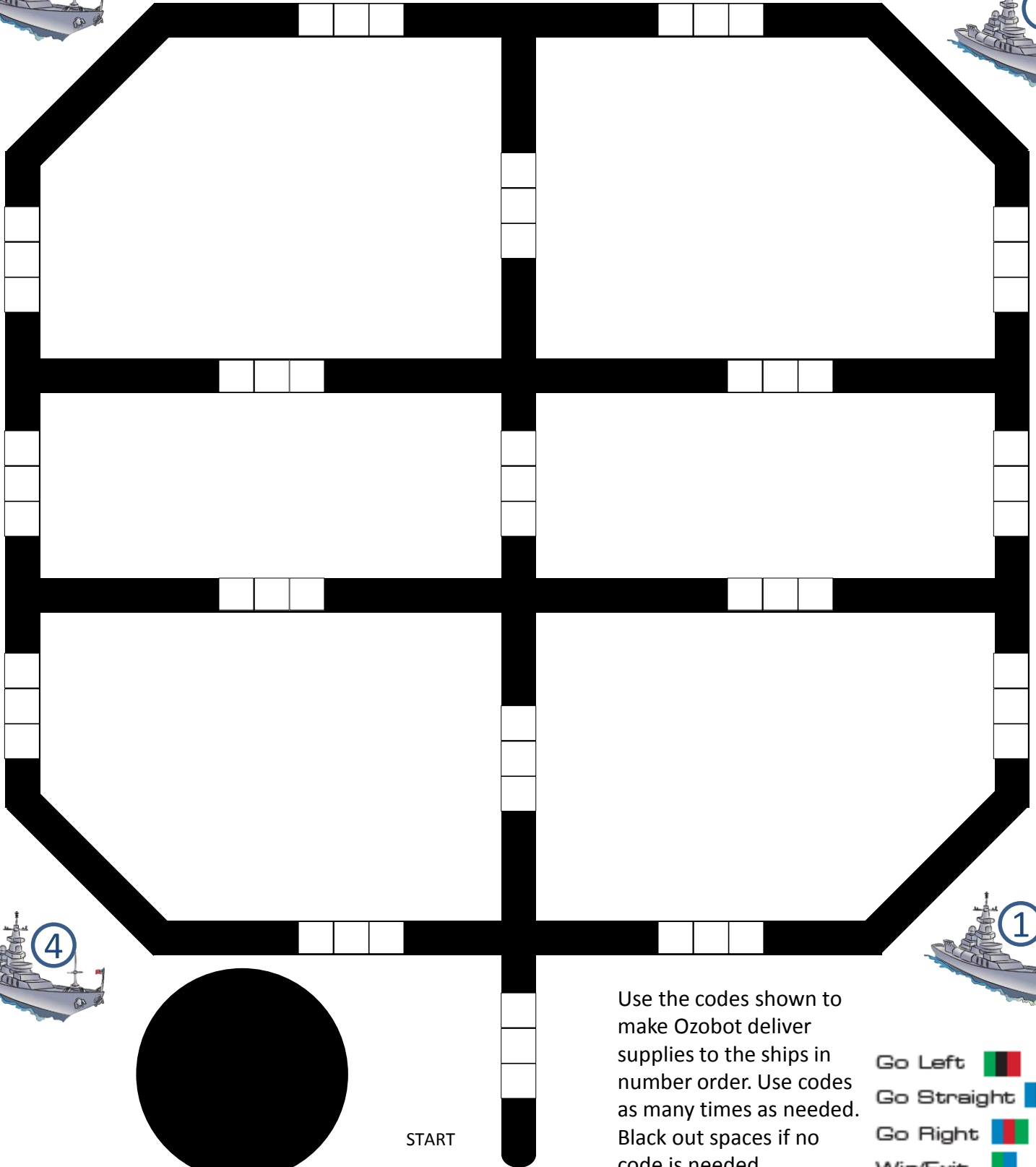
**RUN:** Place Ozobot on table and **double-click** power button to run program.



Find other challenges at [games.ozoblockly.com](http://games.ozoblockly.com)



## Underway Replenishment



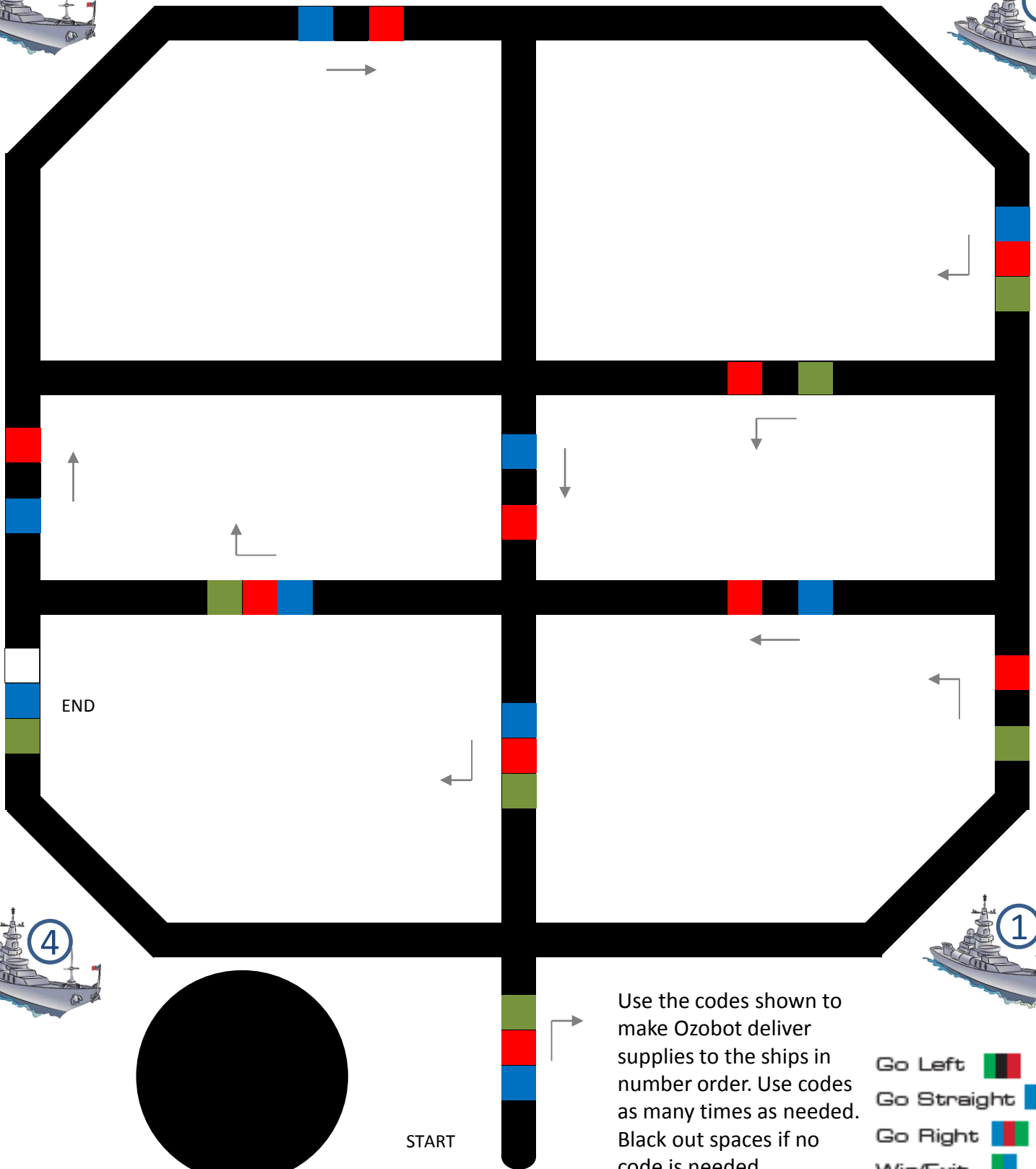
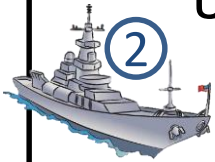
Use the codes shown to make Ozobot deliver supplies to the ships in number order. Use codes as many times as needed. Black out spaces if no code is needed.

- Go Left
- Go Straight
- Go Right
- Win/Exit

Use to Calibrate



## Underway Replenishment



Use the codes shown to make Ozobot deliver supplies to the ships in number order. Use codes as many times as needed. Black out spaces if no code is needed.

- Go Left
- Go Straight
- Go Right
- Win/Exit

Use to Calibrate