

# Ozobots Quickstart

ages 8+

Control Ozobot with color markers by drawing lines and codes for it to explore

OzoBlockly Games is learning coding, but in an approach that is gamified.

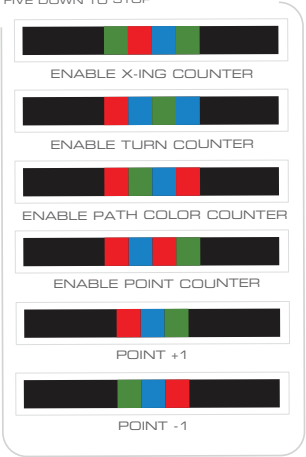


ozobot

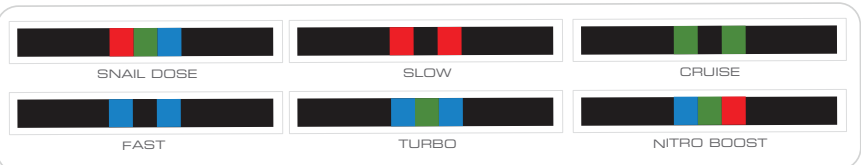
WIN/EXITS



COUNTERS



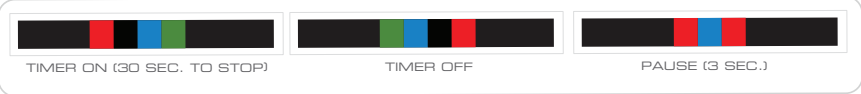
SPEED



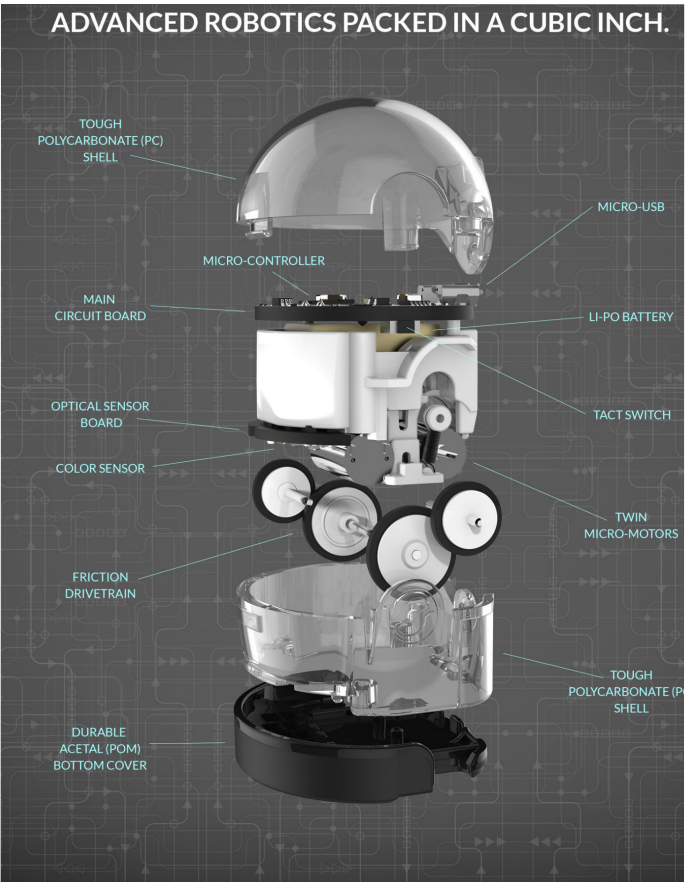
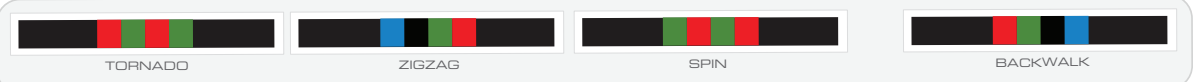
DIRECTION



TIMERS



COOL MOVES



## DISCOVERY

**Centre Station: have students explore what the robots can do by turning it on and colouring lines to follow with felt pens.**

Some templates can be provided so that students can see what ozobots do with different colour patterns

**Providing verbal challenges - such as who can make ozobot to multiple actions along a single track (black line)**

Can you get your ozobot to do a dance routine?

### THINGS TO KNOW WHEN STARTING:

- Ozobots teach very basic programming by having the robots follow patterns on the surfaces they roll over
- You calibrate the ozobot to follow lines by holding down the power button.

### deeper info:

Find OzoBlockly Games at [games.ozoblockly.com](http://games.ozoblockly.com)

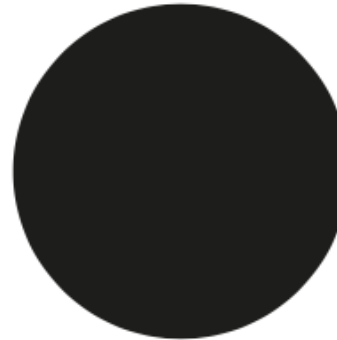
Check out Examples and Challenges anytime in the right panel.

- Go to [ozobot.com/stem-education](http://ozobot.com/stem-education) to download lessons and activities.

## SCAFFOLDED

### Ozobot

Have learners focus on:  
Exploring what ozobots do with various colours  
Using templates to see what robots do as they encounter different colours/  
patterns  
Create original templates to see if a robot can perform a specific task.  
Reset ozobot by calibrating it on a black circle



### Ozoblocky (coding using block code)

[www.ozoblockly.com](http://www.ozoblockly.com) (computer or tablet)  
Drop blocks to create a program  
ie. wait - set light colour- move - set light colour - move -  
Callibrate by setting screen brightness to 100%  
Press power button for at least 2 seconds  
Release the button  
Hold it to the white spot on the screen (black down)  
Callibration is successful when ozobot blinks green  
Load program by : turning ozobot back on  
Press "Load" button on the website  
Ozobot must flicker green to indicate it is loading  
Double Press Ozobot's power button to start the program

### Charging Reminder

**Please remember to recharge the ozobots at the end of a session using microusb cable— the battery is expected to last up to 90 minutes, but this depends on the amount of use. The ozobots take 30-40 minutes to recharge**

## CHALLENGES

### Create a maze to solve

Have the robots complete a race

### Create a code using colours and mirror it using code from ozoblocky

Can you use Ozobot as a bowling ball?

