

AFTER SCHOOL CLUB



AGES 6-12
@ 5:00 PM

KID CODERS - OZOBOTS ROLL OUT!

INTRODUCTION

Join the Do Space crew as we interact with Ozobots, pint-sized robots with big personalities! Learn to code basic instructions by drawing colored patterns, or take a crack at programming your bot to dance to holiday hits.



WHAT WE'LL BE USING:

- Laptops (Macs and PCs available)
- Ozobots (Programmable Robots)
- Butcher Paper
- Markers

How does an Ozobot "read" code?

Our Ozobot friends don't see color the same way that our eyes do. They have light sensors on the base of their bodies, positioned in front of the wheels. A light shines down on the paper and is reflected back into the sensor. Each color reflects a different amount of light, and Ozobot's computer brain can tell those differences apart. That way it knows how to interpret combinations of color to turn, speed up, slow down, and much more!

Subjects:

- Pattern Recognition
- Block-Based Coding

Standards:

- 4-PS4-3
- 3-5-ETS1-2

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Maker

Capacities:

- Make (and Draw) Plans
- Prototype and Test

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Key Terms

- Pattern Recognition
- Inputs/Outputs