

# Welcome! We'll get started soon.

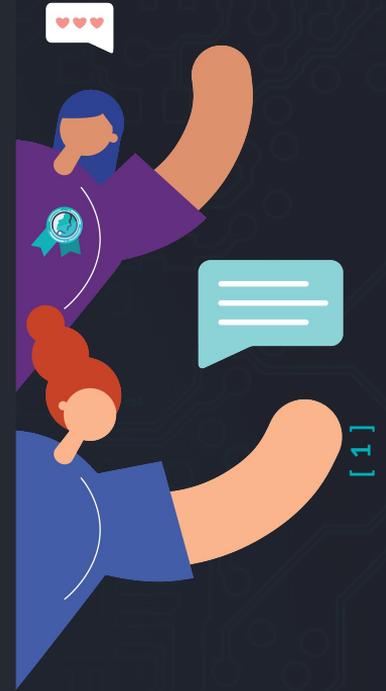
In the meantime, introduce yourself in the Chat

Tip: select "All Panelists and Attendees" in the Chat drop-down

## Ozobot 101

Creating the future of education  
4 pm PDT/ 7PM EDT

ozobot®



## Today's Presenters



**Melissa Toohey**

**Director of Education**

Former Founding Coding, Engineering, and Design Thinking Teacher at KIPP Ignite, Computer Science Coach, & K-1 Teacher UCLA Educational Leadership Program, Ed.D



**Brian**

**Account Executive (FL, NC, IN, MD, CO, KS, MS, HI, NM, MO)**

Avid learner, reader, and technology enthusiast.  
Surfer, runner, dog dad.  
I <3 Ozobot!

# Agenda

1

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Housekeeping

2

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Intro to Ozobot

3

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2 Ways to Code Demo

4

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Video Lessons

5

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Ozobot Hybrid  
Program

6

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Q & A

# Housekeeping

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Slides will be available after the webinar:

- Email
- [YouTube](#)
- [Webinar page](#)

- Everyone is on mute and your camera is off
- Join the conversation!
  - Q & A
    - Ask questions you'd like the panelists to answer
    - Upvote & comment on one another's questions with your own insights!
  - Chat
    - Select "All Panelists and Attendees"
    - Start a dialogue!
- Ozobot staff members monitoring

# Poll Questions

3-5 min

[ 5 ]

# Why robotics?

## Computer Science

**9 out of 10**  
parents want their kids  
to learn CS

Source: [Gallup](#)

## Hands-On STEAM Learning

Increase  
engagement  
  
Boost  
retention up to  
**75%**

Source: [Education Corner](#)

## Future-Ready Skills

**65%**  
of elementary  
students will have jobs  
that don't exist yet

Source: [World Economic Forum](#)

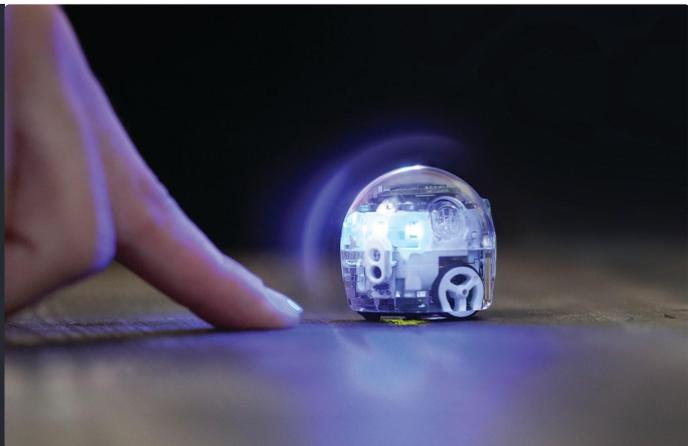
## Social-Emotional Wellbeing

“When I place a robot  
in front of a learner,  
what I see on their  
face is  
**joy!**”

- Ozobot Certified Educator

- What is Ozobot?

A robotic platform that makes it simple to teach coding and STEAM and integrate them into all subjects



Trusted in **30K+** K-12 Schools

**95%** of users report increased engagement

2014  
Ozobot



2015  
Bit



2017  
Evo



2019  
Ozobot Classroom



//CODE//  
2020 SIIA CODE FINALIST

# How It Works



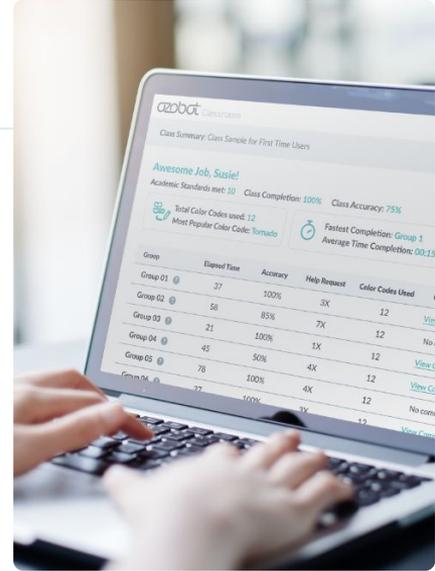
## 1-Inch Robots

Bluetooth-enabled with programmable parts



## 2 Ways to Code

Screen-free with colors, on screens with blocks



## 500+ K-12 Lessons

For content integration and tracking student progress

## 2 Ways to Code



Screen-free with colors



On screens with blocks

For teacher training:

- Sign up at [classroom.ozobot.com](https://classroom.ozobot.com)
- Select Bot Camp

# 2 Ways to Code = Flexibility

All grade levels

**K-12**

All subjects

**74%**

of users teach core  
subjects with Ozobot

Standards: CCSS Math/ELA,  
ISTE, CSTA, NGSS, & more

All learning styles

*Journal of Autism Spectrum  
Disorders* study – effective for  
engaging students with

**ASD**

+ In person, remote, hybrid instruction

# Video Lesson Overview

- **2nd-8th Grade lessons**
- **Recommended pacing: 1 lesson per week**
- **30-45 Minute Activities**
- **Math, ELA, Science, and CSTA/ISTE standards aligned**
  - **Each lesson will be aligned with**
    - 1 ISTE Standard
    - 1 CSTA Standard
    - 1 Content Standard

## Video Lessons include:

- Synchronous Lesson Plan
- Instructional Video
- Student Activity Guide
- Student Activity Sheets
- Teacher Answer Key/Potential Solution

[classroom.ozobot.com/lessons](https://classroom.ozobot.com/lessons)

[Lesson Library](#)

The screenshot displays the Ozobot Classroom interface. At the top, the logo reads "ozobot Classroom". A left-hand navigation menu includes: Dashboard, Classes (with a "NEW" badge), Lessons, Devices (with a "NEW" badge), OzoBlockly, Help, and Settings. The main content area is for user "Sarah Laplace" and features several cards:

- Achievements:** A card for "Bot Camp PD" (1 hr) with a "Continue" button.
- START HERE:** A card for "Bot Camp" (Training for educators in 2 Ways to Code) with a "Start Training" button.
- PRODUCT:** A card for "Unlock Full Features!" (Enter your license code or request a Communicator to unlock boosted Bluetooth and more!) with a "Get More" button.
- Lesson Library:** A card with the text "Browse and save K-12 lessons".
- Classroom Updates:** A section with two video thumbnails. The first is titled "Hands-On, Learn Anywhere Lessons: Halloween Special" (October 13, 2020). The second is titled "Using Our Analog Bot".
- Lesson Creator:** A card with the text "Create more lessons. You could become a Certified Educator".

# What's in a Video Lesson?

ozobot

## Introduction to Color Codes 01: Line Following

Author: Ozobot

Grades: PK-12  
Coding Method: Color Codes  
Subjects: Engineering/Tech, Computer Science  
Robots: Evo, Bit

**Brief Summary**  
Students will learn the basic functionality of Ozobot, including how to calibrate the bot's sensors, and how to draw lines for the bot to follow.  
Pre-Reader/ESL: No

**Required Materials**

- 1 Evo or Bit per group
- 1 Introduction to Color Codes 01: Line Following Activity Sheet per student
- 1 Color Code Markers per group

**Lesson Objectives**

- calibrate Ozobot by placing it on a black dot and pressing and holding the power button.
- use markers to draw lines for Ozobot to follow.

**Preparation**

**Background Knowledge**

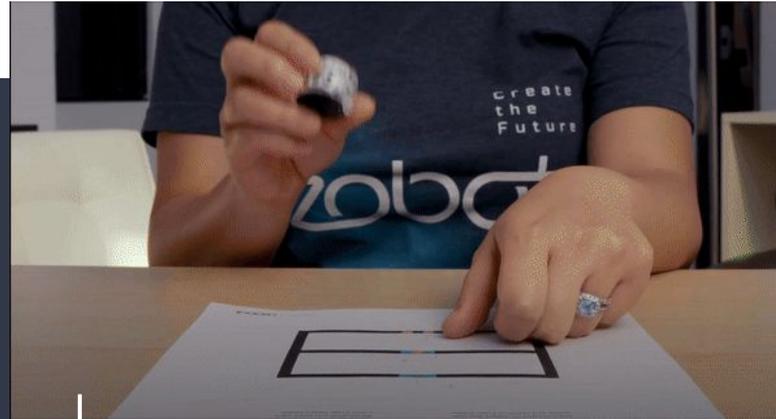
- Prior Lesson Introduction to Ozobot: Get to Know Evo

**Lesson Tips**

- Note for BE users: You may use these lessons with your students, but there may be minor differences and instruction will need to be delivered in person due to BE's lack of Bluetooth functionality.

For Teachers | Discover more lessons and activities at [www.ozobot.com/lessons](https://www.ozobot.com/lessons)

page 1 of 4



Instructional Videos for Self-Guided Learning

Standards-Aligned Lesson Plans for Synchronous and Asynchronous Sessions

Mix It Up Multiplication

Color Codes Key

Start	Speed	Slow
Black	Red	Green
Blue	Yellow	Orange

Color Codes Key

Turbo	Turn	Turn
Black	Red	Green
Blue	Yellow	Orange

ozobot

Introduction to Color Codes 2: Drawing Color Codes

Color Codes

1

Ozobot reads and reacts to sequences of colors called Color Codes.

1 Place Ozobot on a black line and watch as it reacts to Color Codes.

2 Write what you think each Color Code means below.

Turbo

U-Turn

Slow

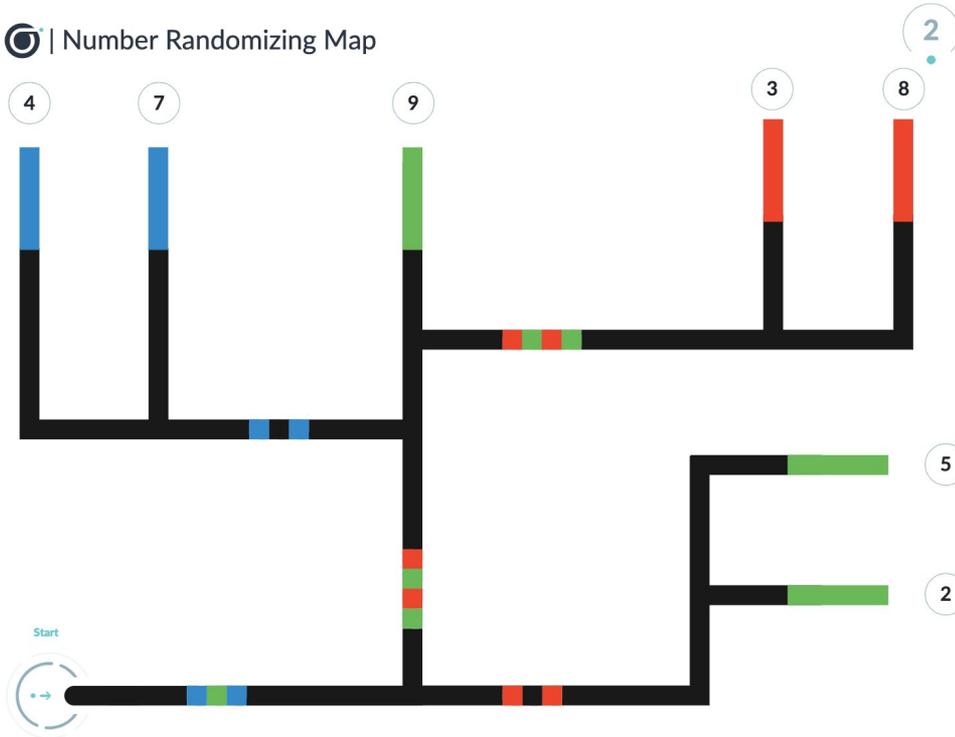
ozobotLIVE | ozobot

Answer Keys/Sample Solutions

Activity Sheets for Students

# 5th Grade Math

## Number Randomizing Map



SAMPLE SOLUTION

## Number Randomizer

### Place Value & Number Forms Worksheet

Random Number

Standard Form:   4     7     3   .   2     5     8  

Word Form:   four     hundred     seventy-three   and   two hundred fifty-eight     thousandths  

Expanded Form:   400   +   70   +   3   +   0.2   +   0.05   +   0.008  

1

Random Number

Standard Form:   5     9     2   .   7     8     7  

Word Form:   five     hundred     ninety-two   and   seven hundred eighty-seven     thousandths  

Expanded Form:   500   +   90   +   2   +   0.7   +   0.08   +   0.007  

2

Random Number

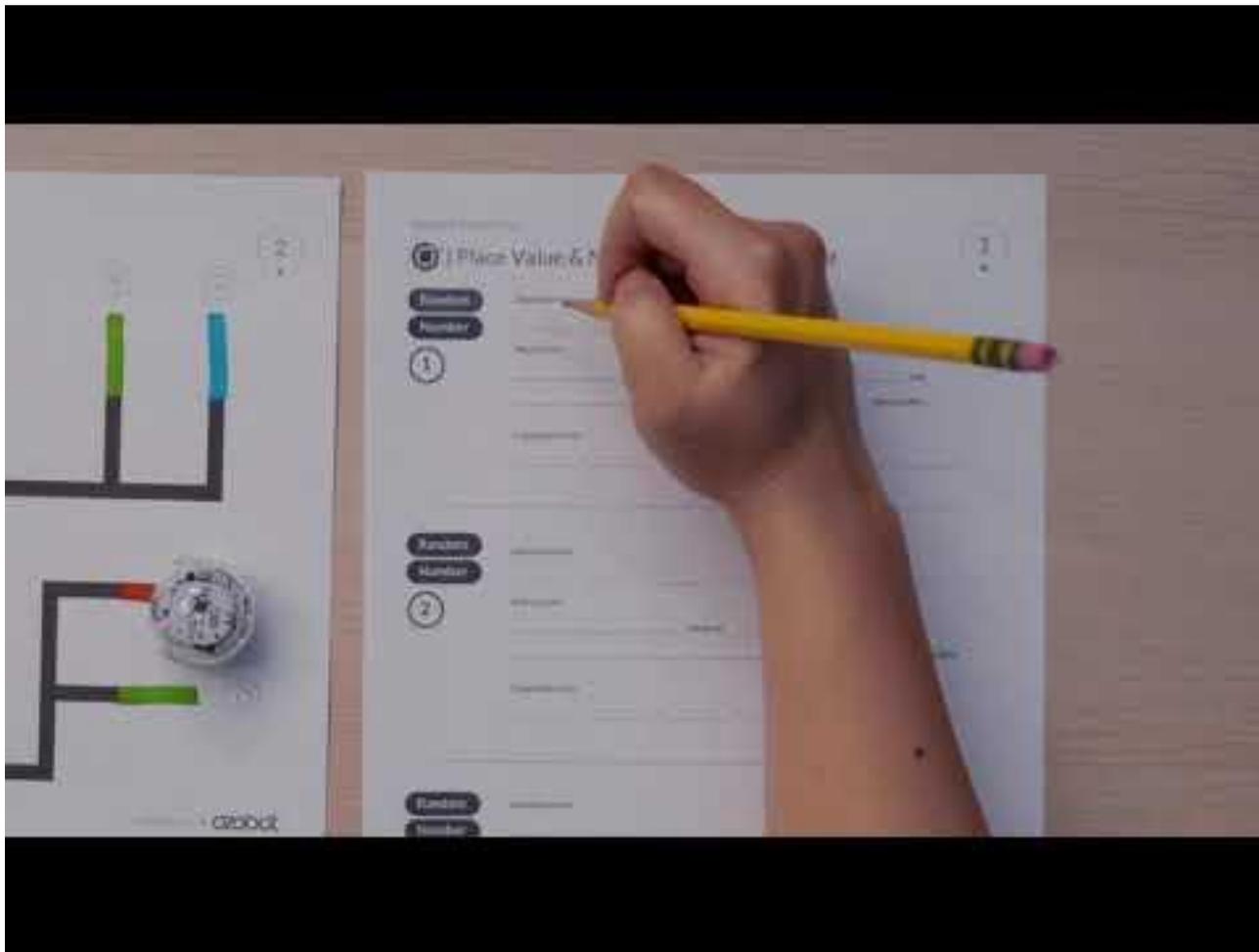
Standard Form:   8     4     8   .   2     9     8  

Word Form:   eight     hundred     forty-eight   and   two hundred ninety-eight     thousandths  

Expanded Form:   800   +   40   +   8   +   0.2   +   0.09   +   0.008  

3

SAMPLE SOLUTION



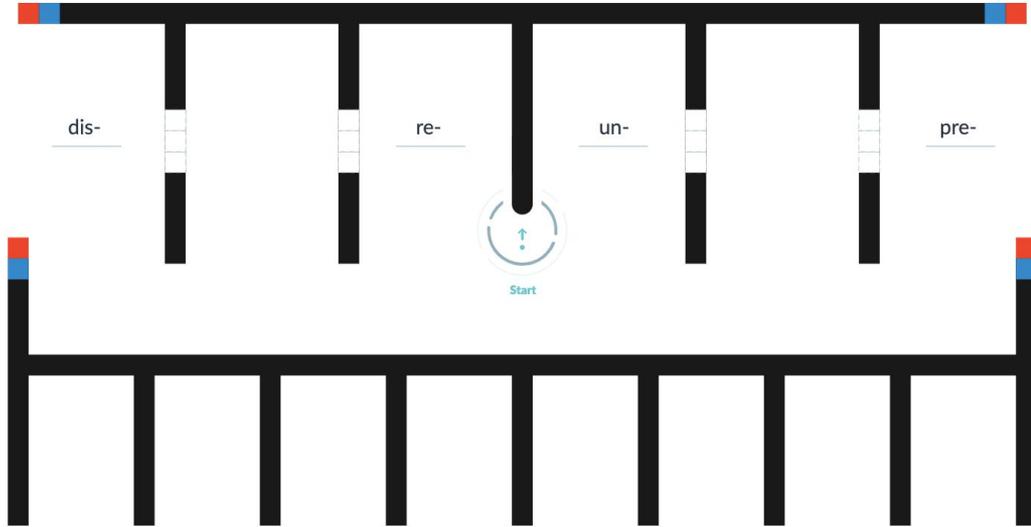
# 2nd Grade ELA

## Random Prefix Prefix Chooser

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

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

1



like    happy    do    move    appear    heat    school    able    lucky

Random Prefix

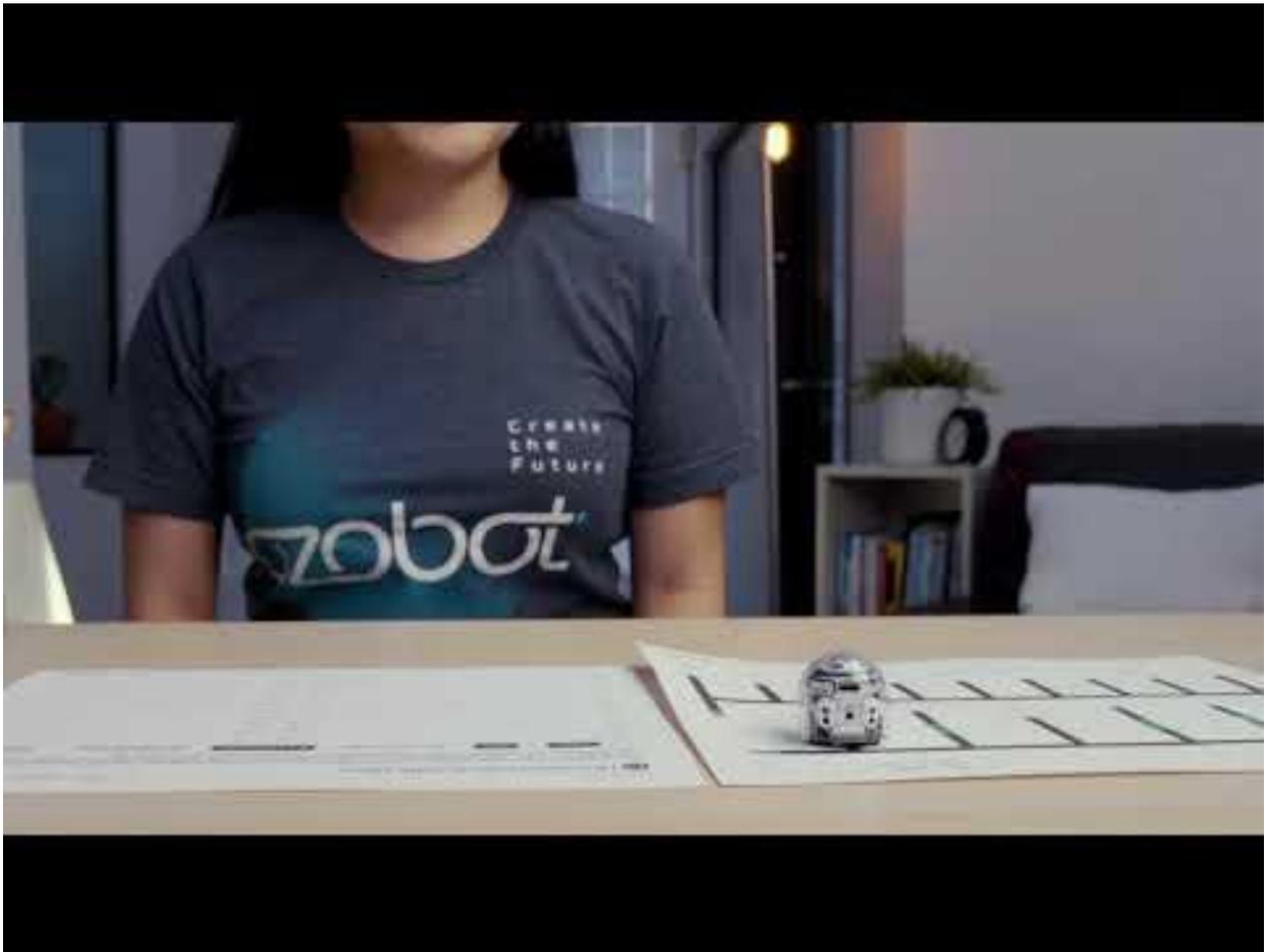
## Random Prefix Activity Sheet

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

2

Use your Ozobot to choose a prefix and a root to make a word. Decide if the word is one that is normally used. If yes, circle Y and write the meaning in the far right column. If no, add another prefix to the root to make a word that is normally used, then write the meaning in the far right column. Only write a prefix + root combination one time. If your bot chooses the combo again, go back to start and choose again.

	Prefix	+	Root	=	What does it make?	Is it a real word?	If no, use the root with a different prefix	What does the word mean?
1	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
2	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
3	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
4	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
5	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
6	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
7	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
8	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
9	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
10	_____	+	_____	=	_____	<input type="radio"/> Yes <input type="radio"/> No	_____	_____



# All Grades STEAM + SEL







### Sample Lesson Series:

Introduction to OzoBlockly 01: Basic Training

Introduction to OzoBlockly 02: Sequences

Introduction to OzoBlockly 03: Loops

Introduction to OzoBlockly 04: Conditionals

Introduction to OzoBlockly 05: Skills Check 1

Introduction to OzoBlockly 06: Variables

Introduction to OzoBlockly 07: Line Following

Introduction to OzoBlockly 08: Debugging

Introduction to OzoBlockly 09: Skills Check 2

## Middle School Video Lessons

- Lesson Series
- Open-Ended Challenges
- Content-Integrated Lessons

## Holiday & Seasonal Lessons

- Halloween
- Thanksgiving
- Kwanzaa
- Hanukkah
- Christmas
- Lunar New Year
- Black History Month
- .. And more!

[classroom.ozobot.com/lessons](https://classroom.ozobot.com/lessons)

[Lesson Library](#)



# Accessibility for All

## All Lessons include:

- **Instructional Videos + Student Activity Guides**
  - Chaptered Videos for Self-Pacing
  - Auditory and Visual Guidance
  - Text Instructions
- **Address the tech gap**
  - Learn core subjects + STEAM skills
- **Any grade level, any skill level**
- **Color Code support for students with Color Vision Deficiency (CVD)**

The screenshot displays the ozobot Classroom interface. At the top, it shows the user profile for Enzo Allen (EA) with a 'Log Out' link. The lesson title is 'Introduction to Color Codes (1/3) - Line Following', and the class is 'Class Name, Section 1' with teacher 'Melissa Toohey'. The lesson duration is 25-30 minutes, and it is scheduled for Jun 25th, 2 days out. A progress bar indicates the current step is 4 out of 7. The 'Instructions' section is highlighted, showing a video player and a list of steps: 1. Line Following Sensors, 2. Calibration (selected), 3. Drawing Lines, 4. Draw a circle, 5. Drawing Corners and..., 6. Seeing Color, and 7. Great Work!. The 'Calibration' step includes instructions to find Page 1, calibrate the bot, use a Calibration Dot template, place the bot on the dot, and press the power button for 5 seconds. The interface also features a 'Completion Checklist' icon and a 'Stuck? Ask for a hint!' button.

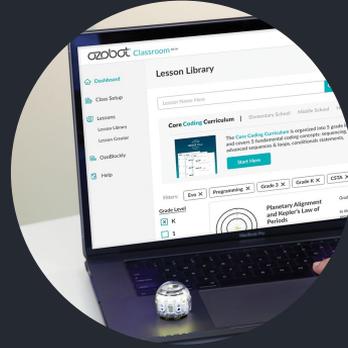
CARES Act Eligible  
+ other federal & state initiatives!

# Ozobot Hybrid Program

How it works:



1 - Each student gets an Ozobot



2 - Teachers access remote-friendly lessons, training, & PD



3 - Schools integrate coding & STEAM into all subjects, for all students

Request a quote at [ozobot.com](https://www.ozobot.com)

# Q & A

# Wrap-Up

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- **Need bots? Request a demo or quote at [ozobot.com](https://ozobot.com)**
  - Try Ozobot free with **OzoBlockly Challenges** – [ozobot.com/create/challenges](https://ozobot.com/create/challenges)
  - Get a free copy of the **Ozobot Funding & Grants Tool** – [ozo.bot/funding](https://ozo.bot/funding)
    - CARES Act info & letter template
    - Samples of successful grants
- **Got bots? Get started with **Ozobot Classroom**:**
  - Sign up at [classroom.ozobot.com](https://classroom.ozobot.com)
  - Complete Bot Camp
  - Explore Lessons

Thank You



ozobot<sup>®</sup>