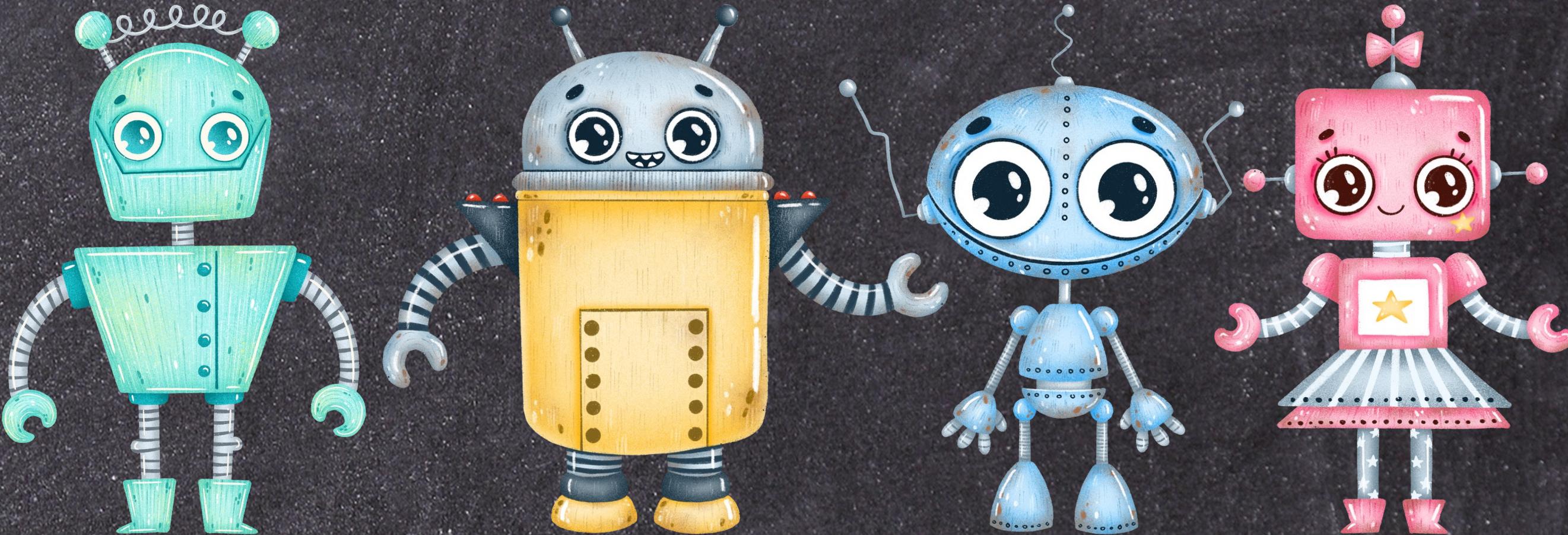


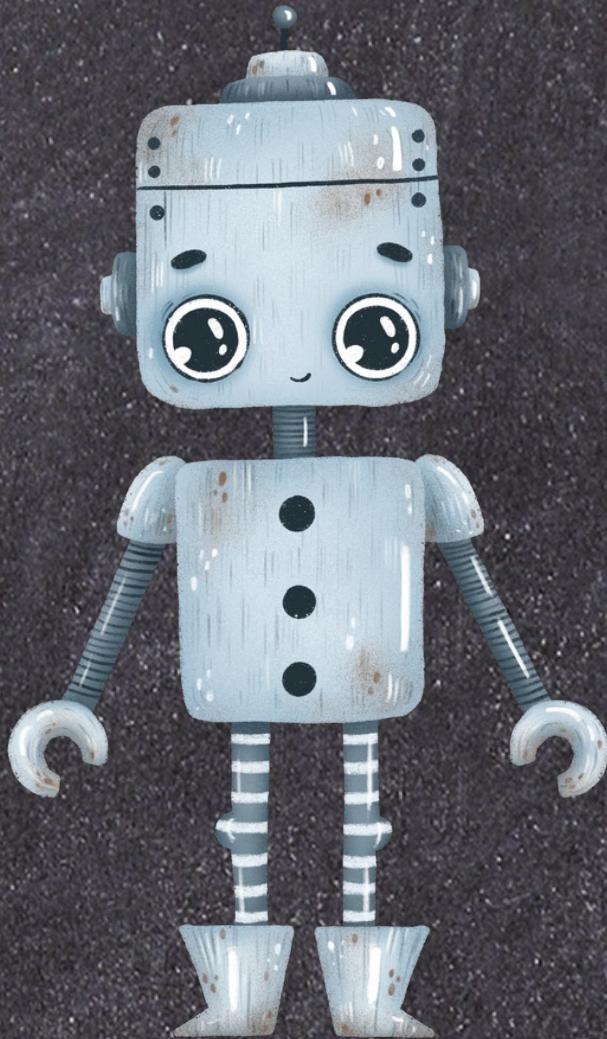
ROBOTICS IN THE ELEMENTARY CLASSROOM

JENNA FINCEL



AGENDA

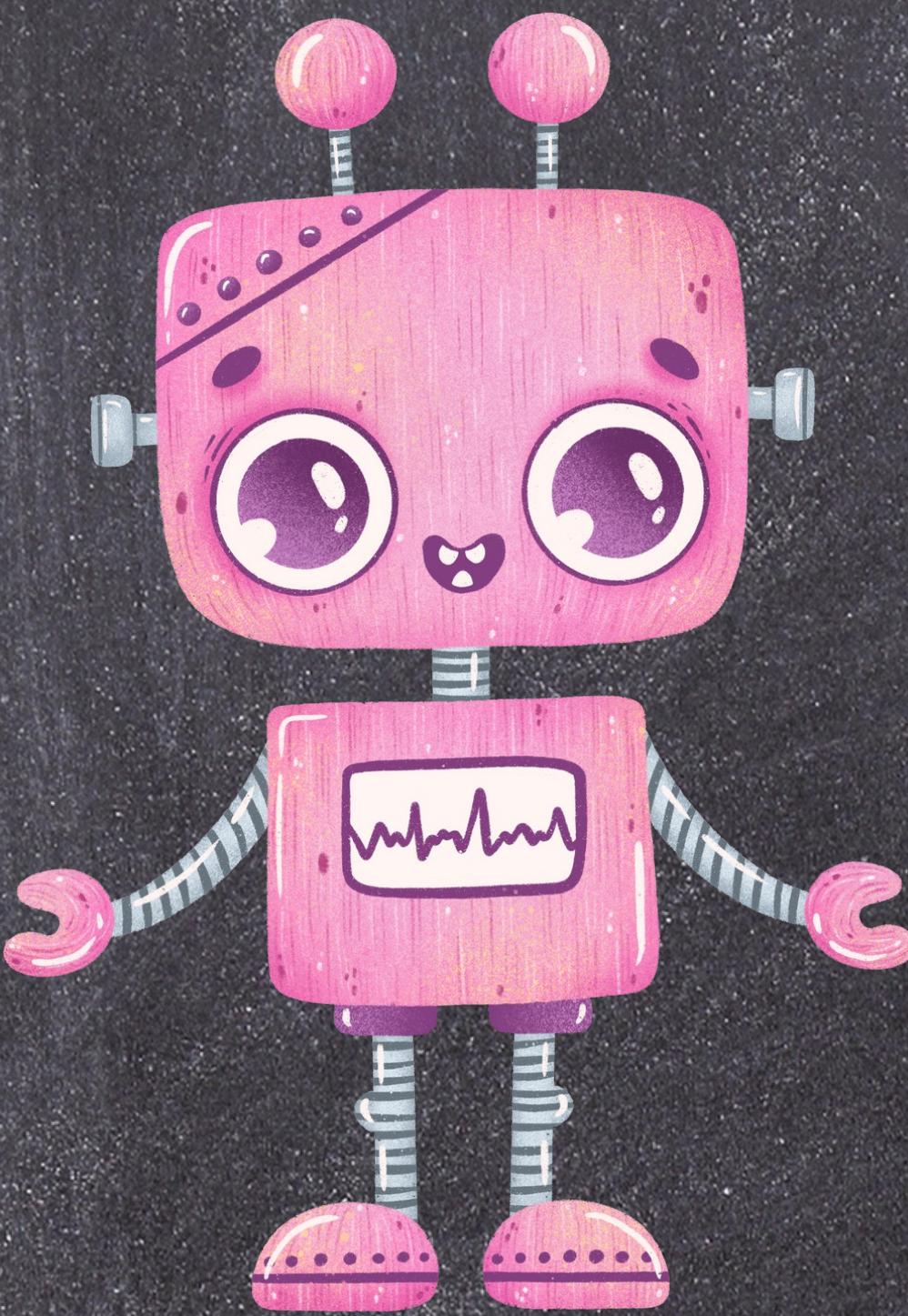
- INTRO TO DIFFERENT ROBOTS
- GATHER LESSON IDEAS
- EXPLORE!



WHY ROBOTS?

- WHAT DO YOU TEACH?
- WHY DID YOU PICK THIS SESSION?

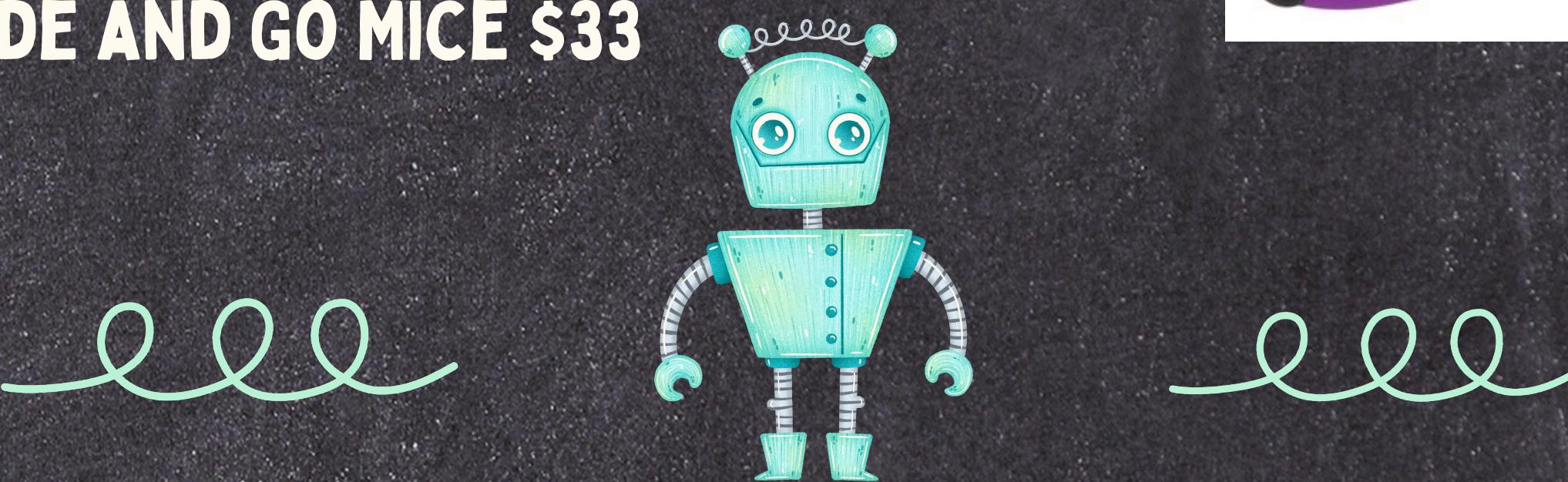
ROBOTS WE WILL DISCUSS



- *BEEBOTS/CODE AND GO MICE
 - OZOBOTS
- *LEGO WEDO/SPIKE ESSENTIAL
- LEGO MINDSTORM/*SPIKE PRIME
 - DASH
 - *SPHERO

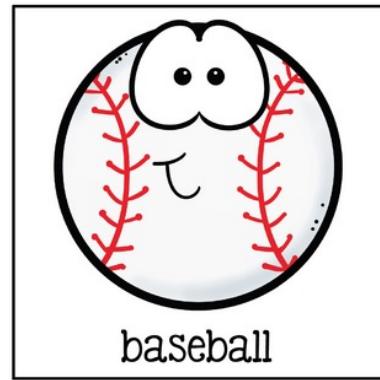
BEEBOTS

- IDEAL FOR PREK-1
- SCREEN-FREE CODING
- DRIVEN ON MATS (OR CAN MAKE YOUR OWN)
- HIVE AND FLOWER INTRODUCTION GAME
- THEMED MATS
- \$99
- PURPLE CODE AND GO MICE \$33



BEEBOTS

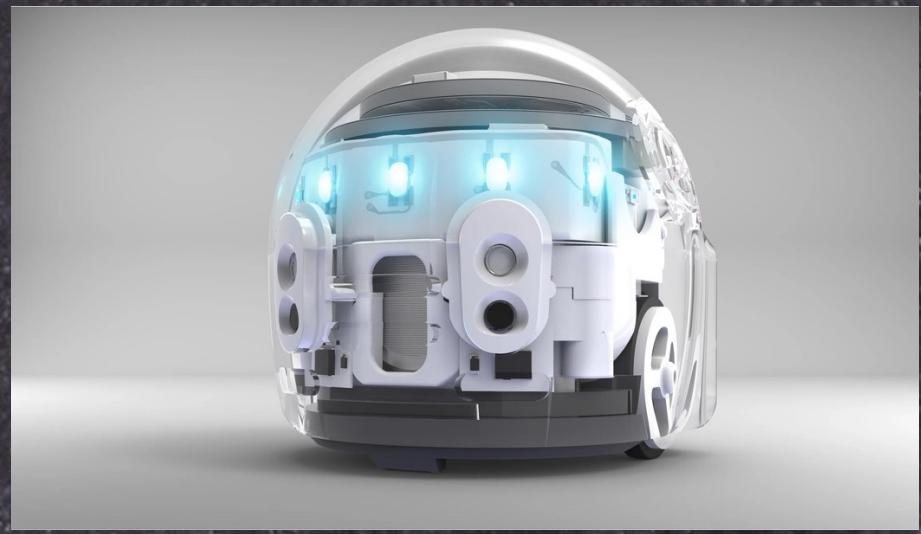
**cookies
& milk**



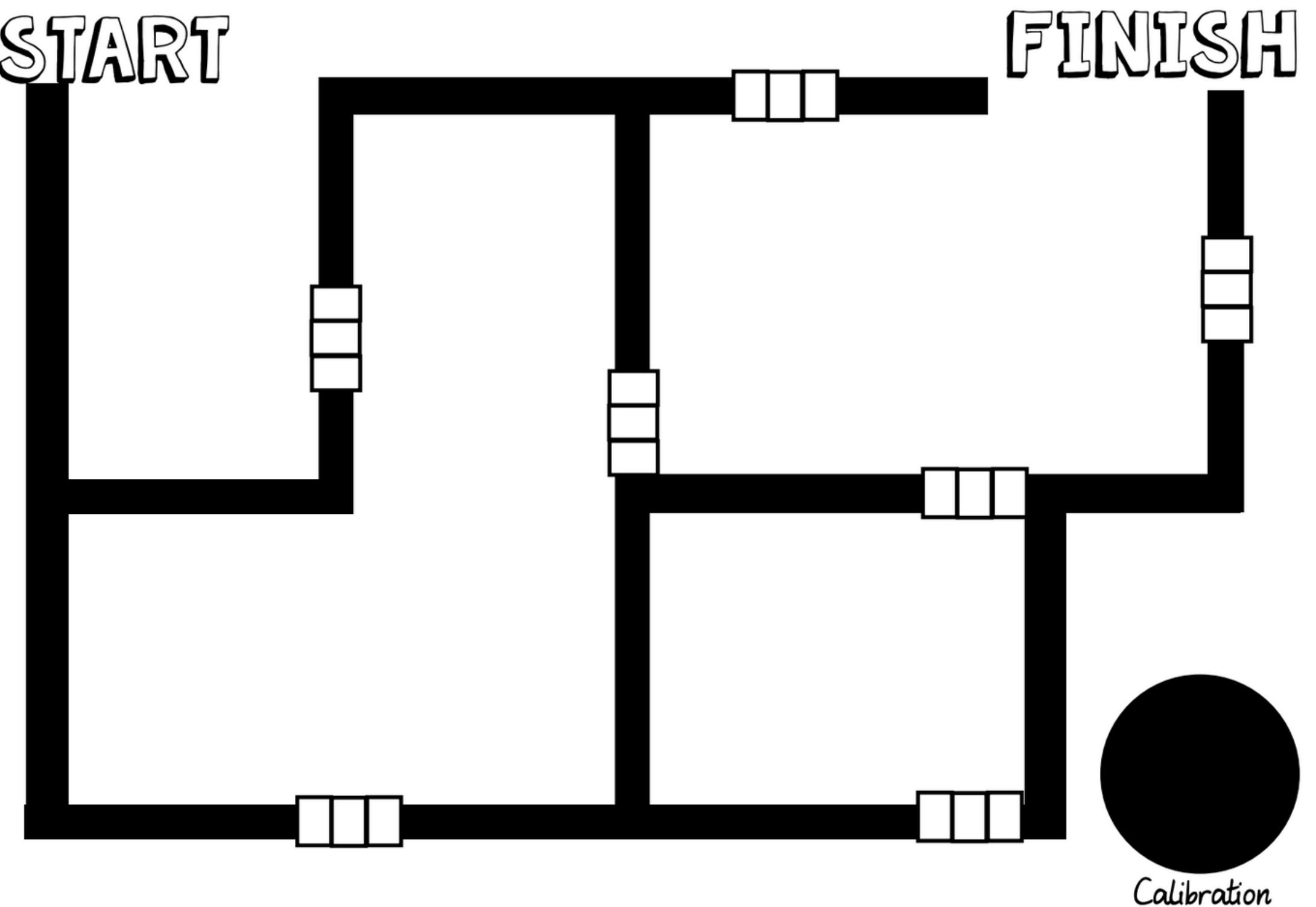
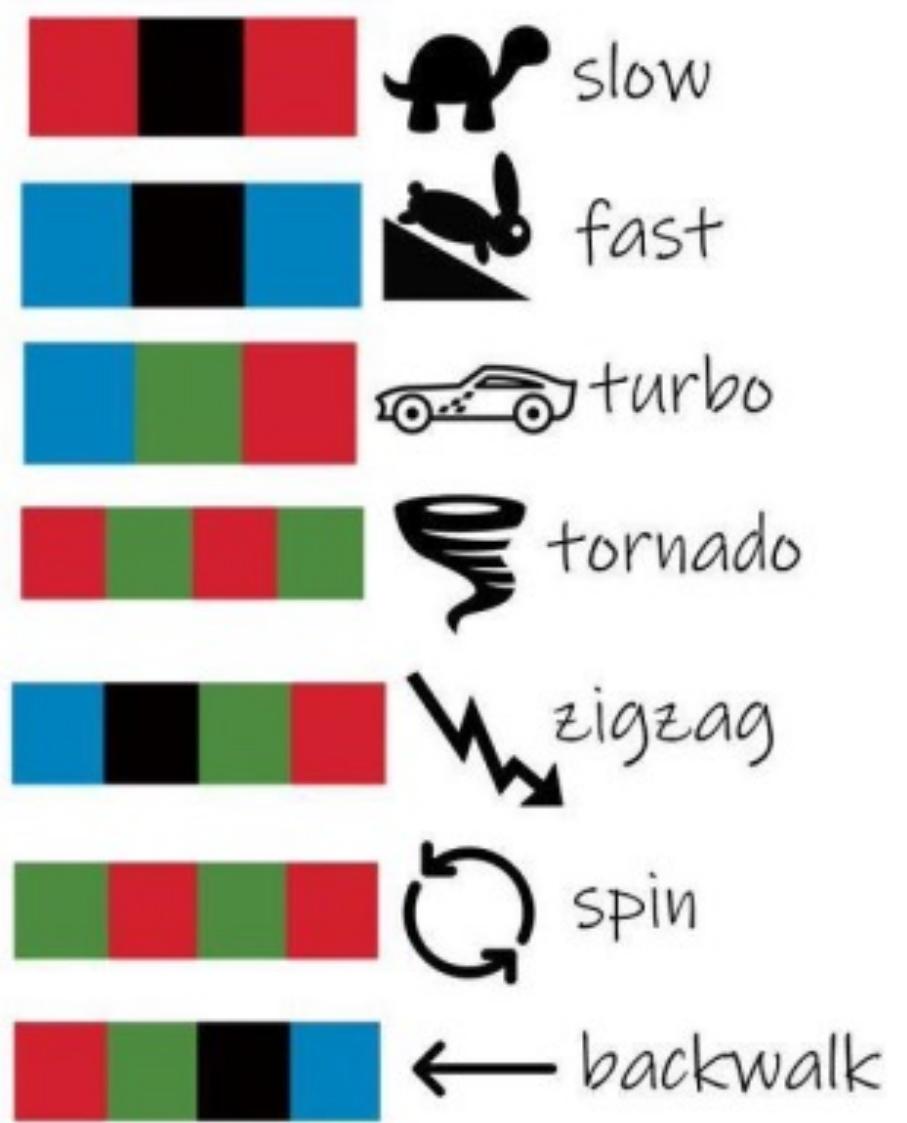
**ADD PICTURE OF
HIVE/FLOWER/STICKS**

OZOBOTS

- IDEAL FOR 1-3
- SCREEN-FREE CODING OR ON IPAD
- DRAW PATH WITH MARKER
- CAN USE "SECRET CODES"-PRINT ON LABELS
- CAN USE GRID PAPER
- CONSTRUCT A ROBOT CITY TO DRIVE THROUGH
- \$175

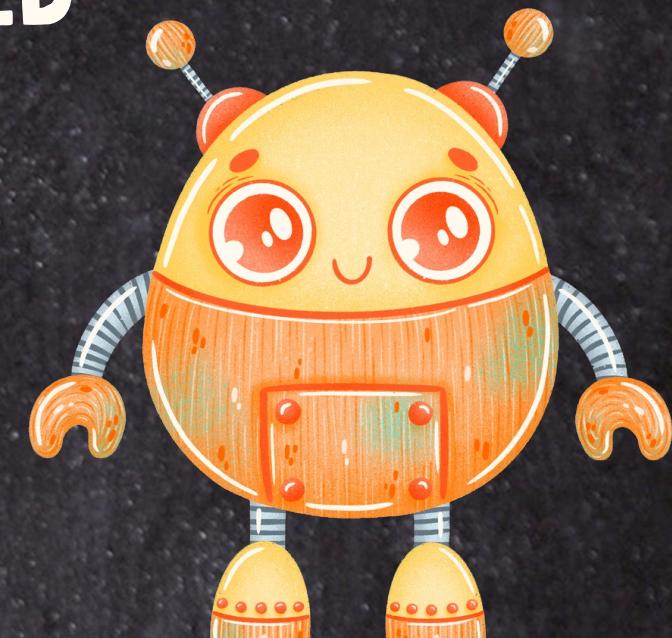


OZOBOTS



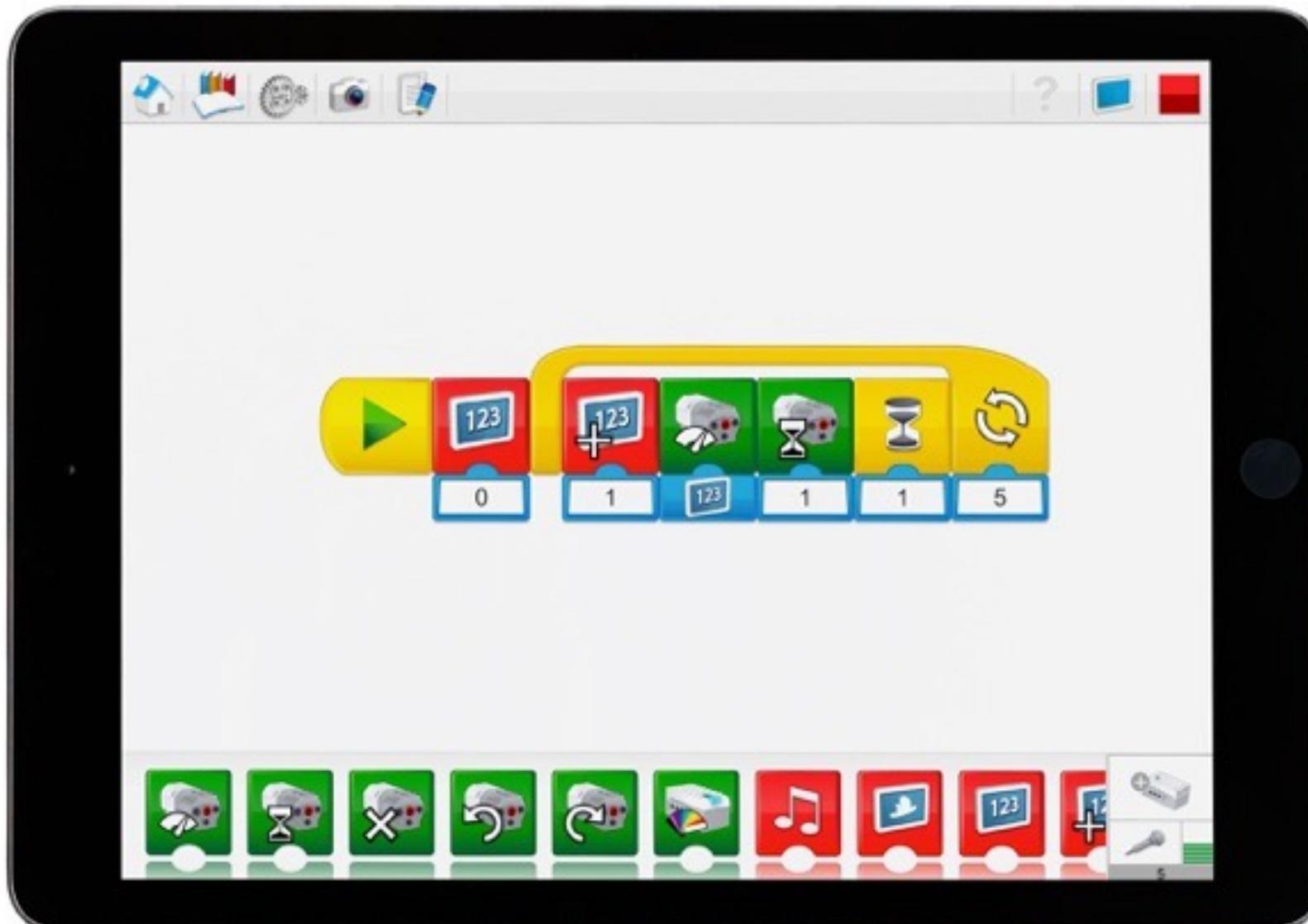
LEGO WEDO/SPIKE ESSENTIAL

- IDEAL FOR 1-3
- CLASSROOM PROJECT DIRECTIONS ON IPADS
- DRAG AND DROP PICTURES SHOWN
- WONDERFUL WAY TO PRACTICE TAKING TURNS AND FOLLOWING DIRECTIONS CAREFULLY
- ROBOTIC PET EXTENSION PROJECT
- WEDO NO LONGER SOLD (APP JULY 2026): SPIKE ESSENTIAL-UPDATED VERSION
- \$330



LEGO WEDO

Drag-and-drop programming environment.

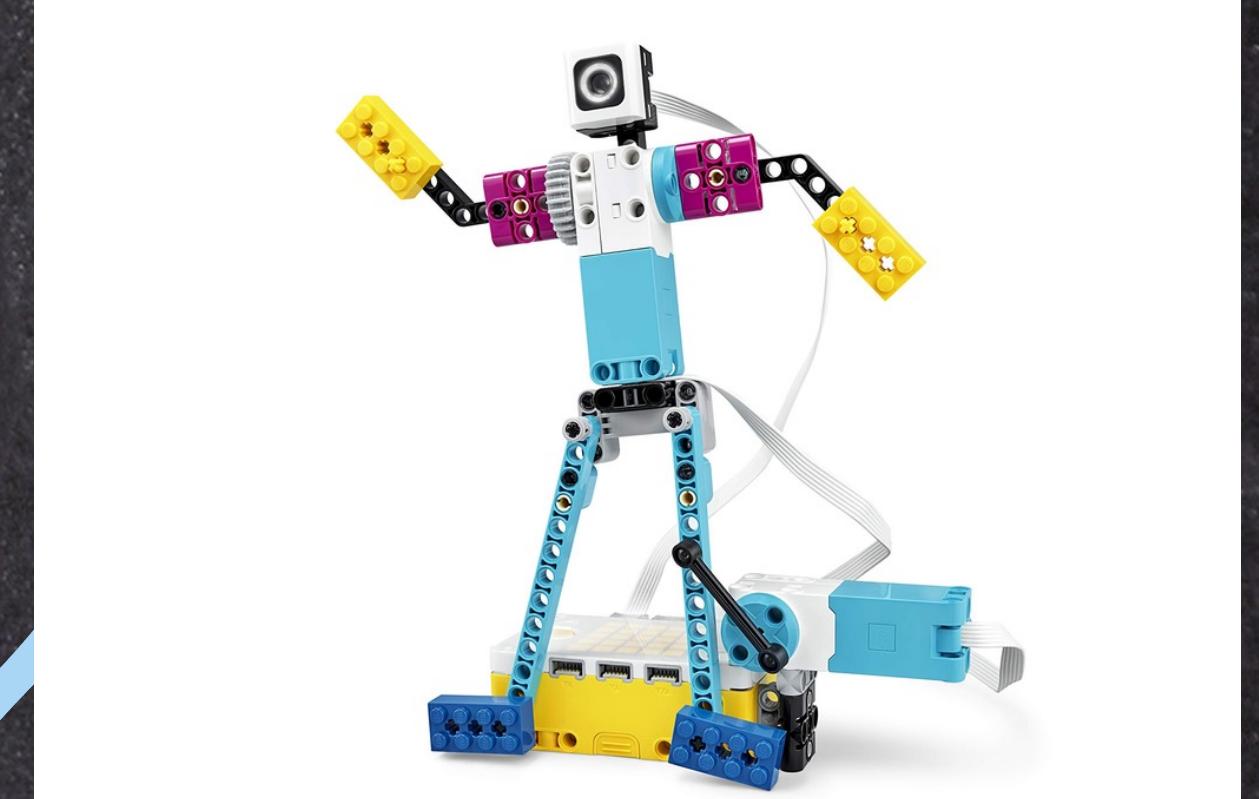
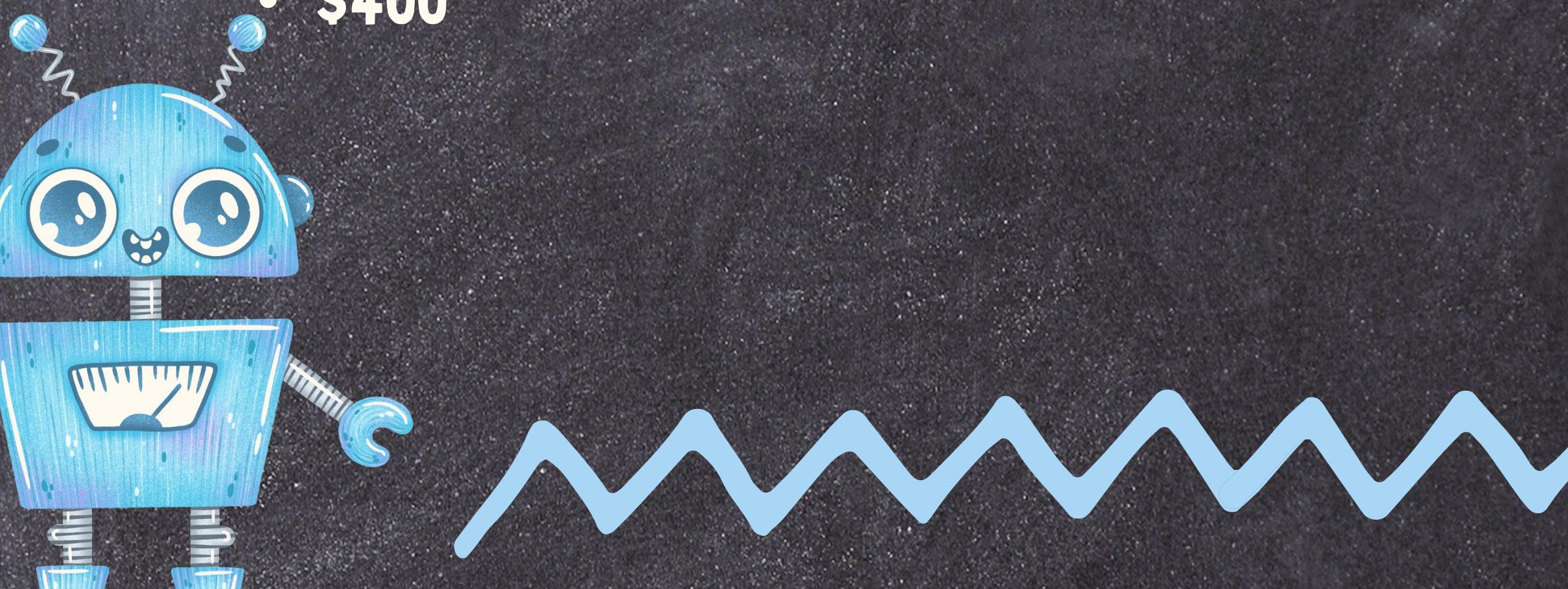


Getting Started



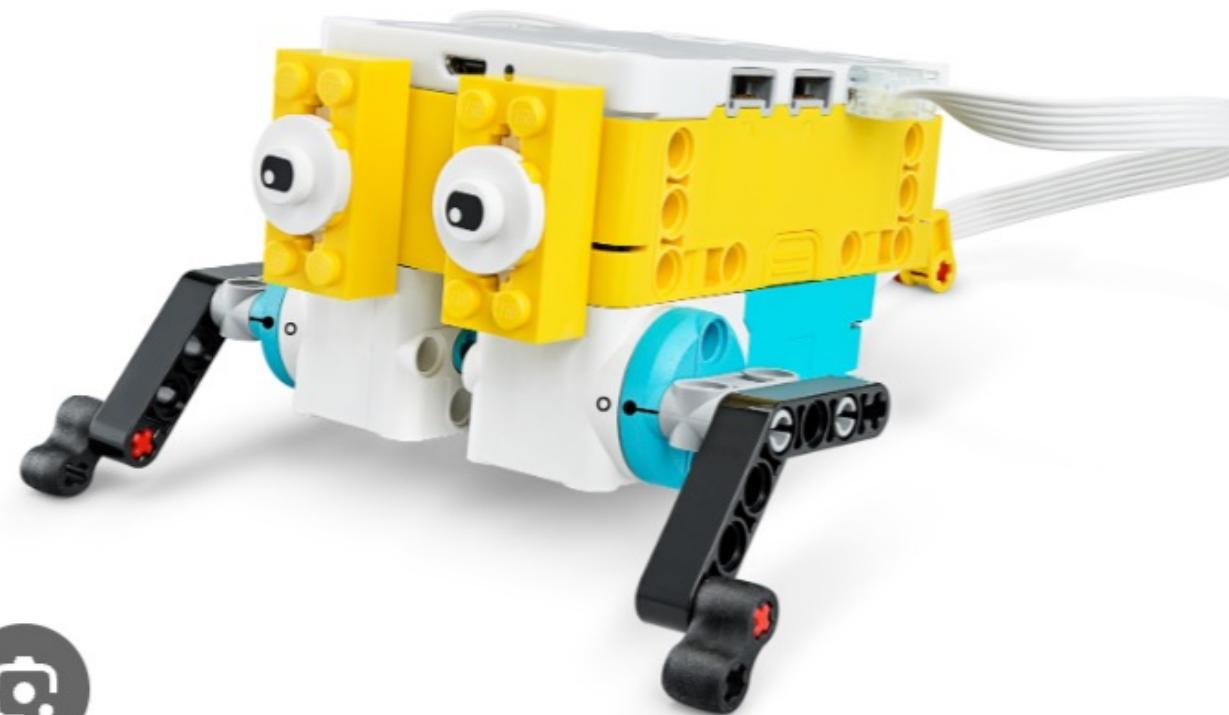
LEGO MINDSTORM/SPIKE PRIME

- IDEAL FOR 4-6
- CLASSROOM PROJECT DIRECTIONS ON IPADS
- DRAG AND DROP WORDS-PRESET
- WONDERFUL WAY TO PRACTICE TAKING TURNS AND FOLLOWING DIRECTIONS CAREFULLY
- \$400



LEGO SPIKE PRIME

Hopper



Program

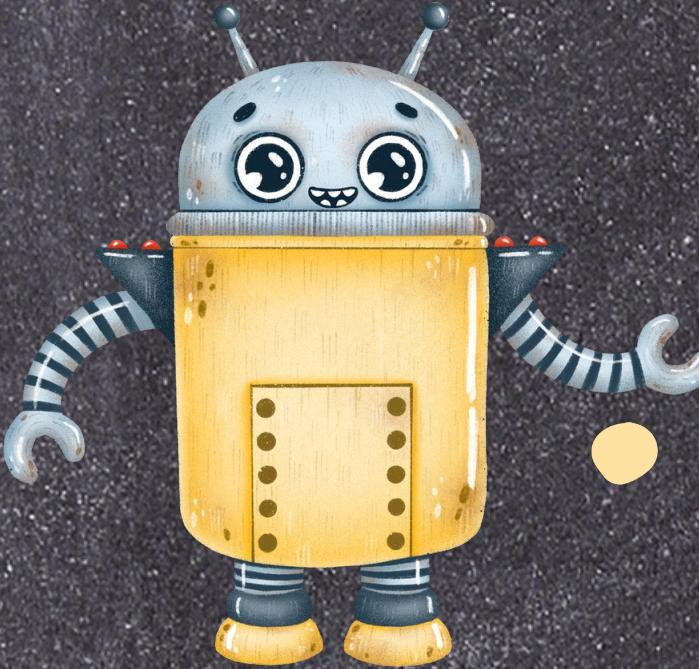
Main Program

```
when program starts
  set movement motors to E+F
  set movement speed to 50 %
  turn on [3] for 1 seconds
  turn on [3] for 1 seconds
  turn on [3] for 1 seconds
  move ↑ for 10 seconds
```

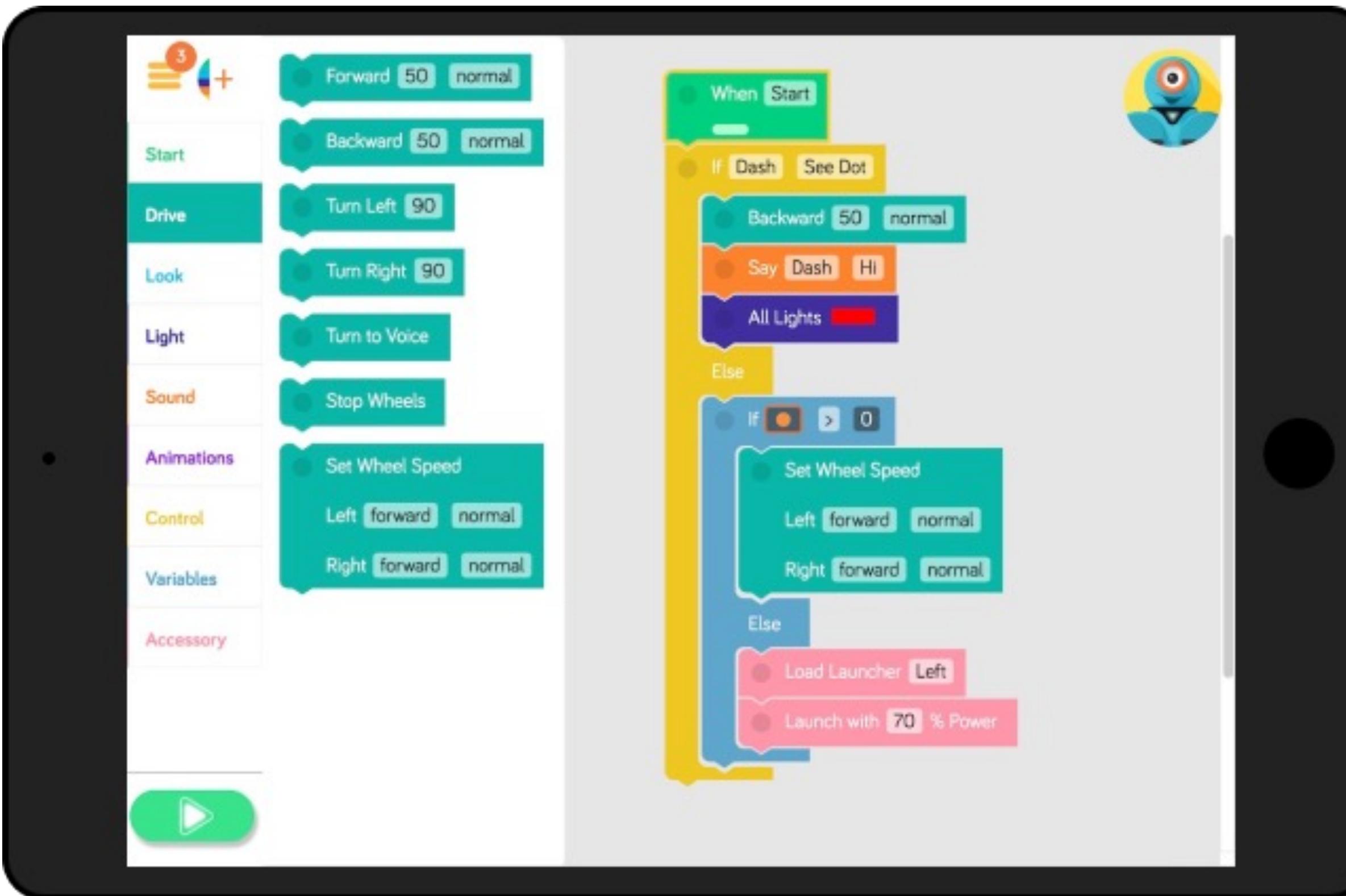
Adjust this to change the distance your Hopper will move.

DASH

- IDEAL FOR 3-5
- CAN USE WITH PUZZLETS FOR SCREEN-FREE K-1 CODING (\$130 FOR TRAY AND PIECES)
- DRAG AND DROP APP
- CHALLENGE CARDS
- \$180
- DOT: \$70

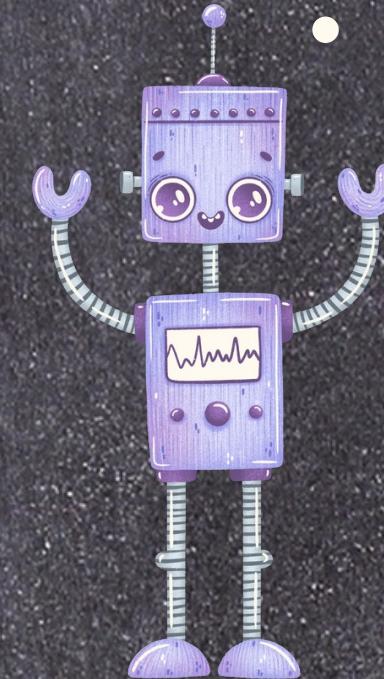


DASH

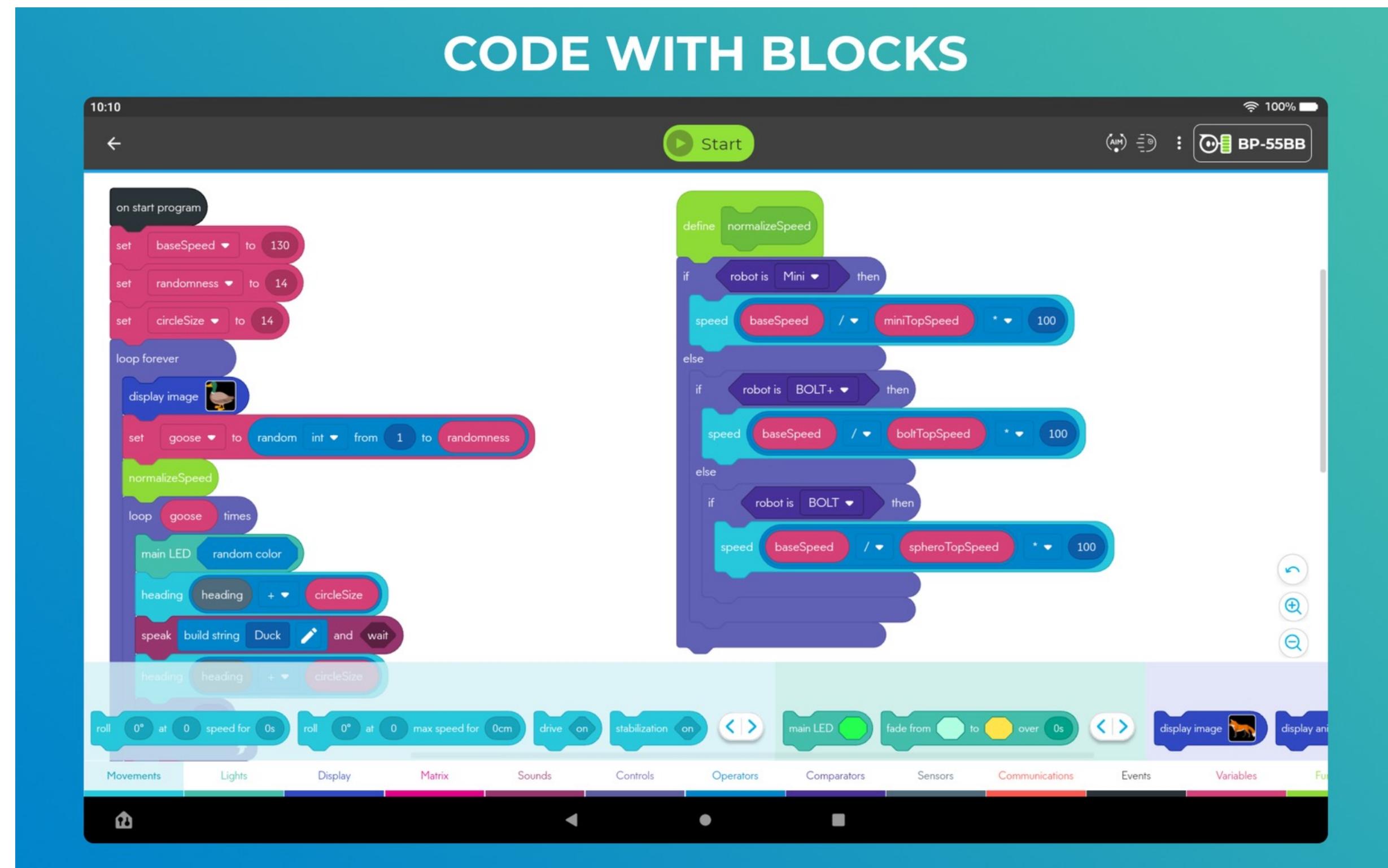


SPHERO

- IDEAL FOR 3-6
- MINIS
- DRAG AND DROP CODING OR JOYSTICK NAVIGATION
- TAIL LIGHT
- CHECKLIST CHALLENGES, DRAW A SHAPE, NAVIGATE A MAZE, DESIGN A COSTUME AND DANCE
- \$50
- BOLT: \$180 INDI: \$190 (SCREEN FREE)



SPHERO

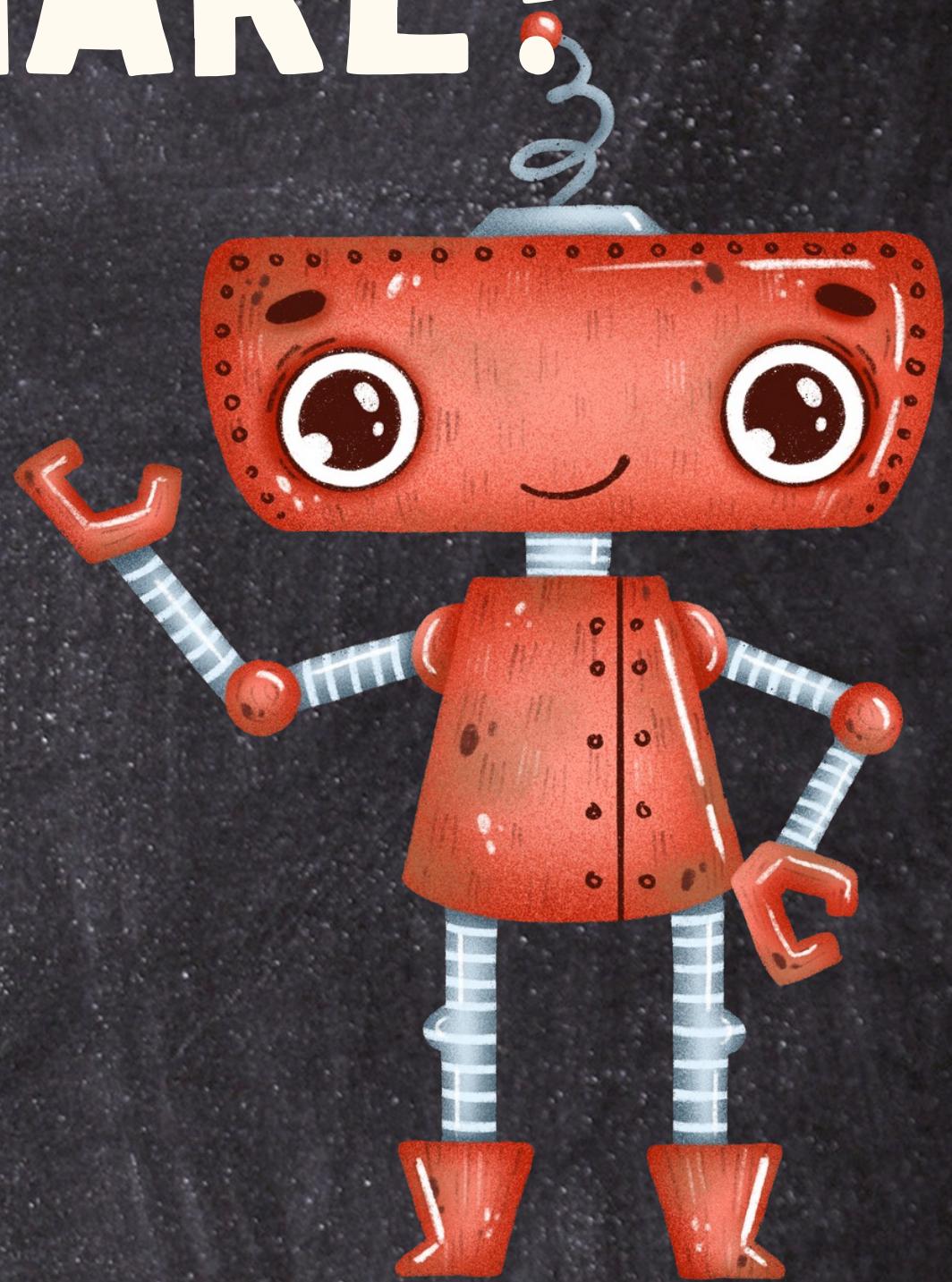


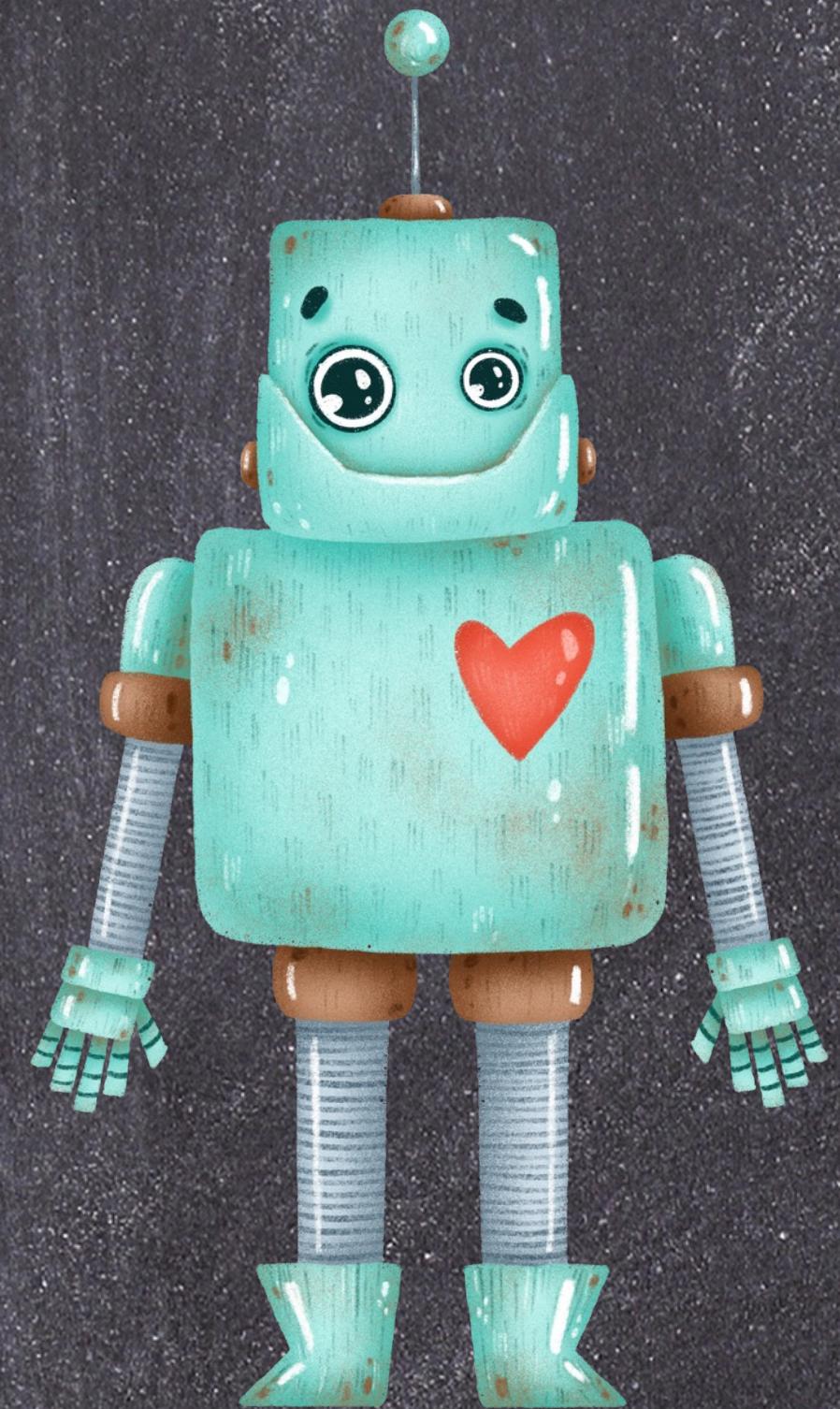
ROBOTS OVERVIEW

- PREK: BEEBOTS, CODE AND GO MICE, DASH (WITH PUZZLETS)
- K: BEEBOTS, CODE AND GO MICE, DASH (WITH PUZZLETS)
- 1: BEEBOTS, CODE AND GO MICE, DASH (WITH PUZZLETS), LEGO WEDO OR SPIKE ESSENTIAL, OZOBOTS
- 2: DASH (WITH PUZZLETS), LEGO WEDO OR SPIKE ESSENTIAL, OZOBOTS
- 3: DASH, SPHERO MINI, OZOBOTS
- 4: LEGO MINDSTORM OR SPIKE PRIME, DASH, SPHERO MINI
- 5+: LEGO MINDSTORM OR SPIKE PRIME, DASH, SPHERO MINI, OZOBOTS



QUESTIONS?
OTHER IDEAS TO SHARE?





PRESENTATION SLIDES

TIME TO
EXPLORE!

ROBOT ACTIVITY HANDOUTS

