Special Moves Kit Lesson 2

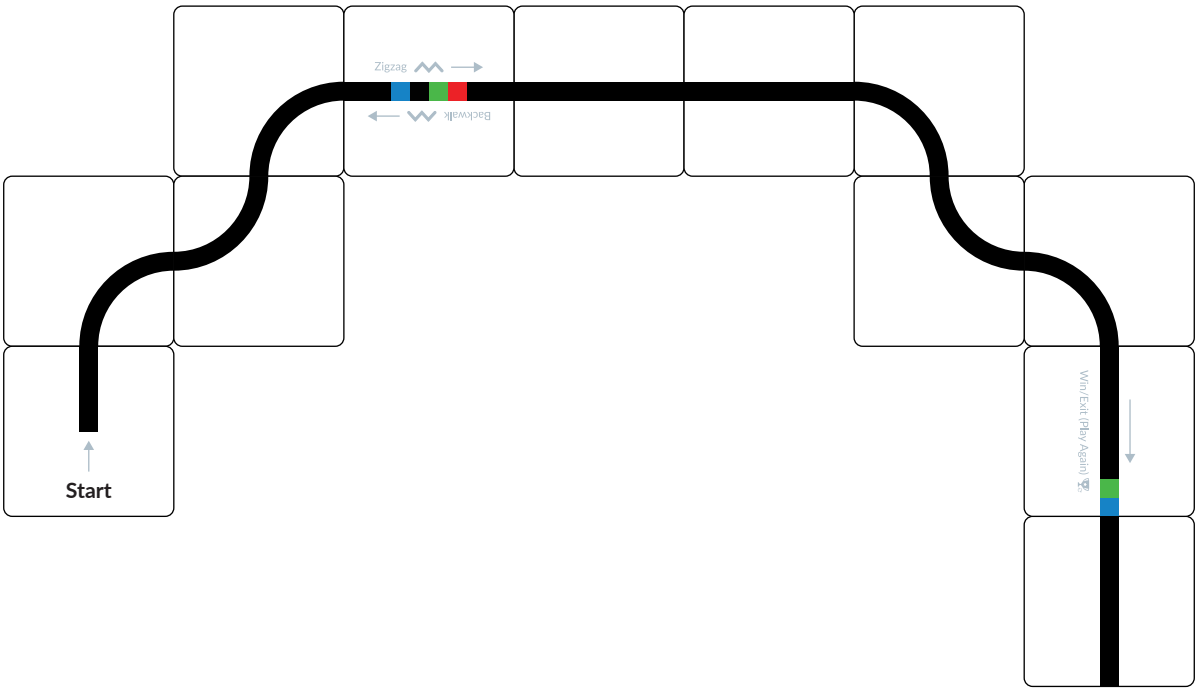
Zigzag and Backwalk: Just Dance

Name:_____

Date:_____

Ozobot is a fantastic dancer! Two Special Moves that Ozobot can do are Zigzag and Backwalk. As a warm-up, have students make a zigzag motion with each part of their body: finger, hand, arm, shoulder, head, hips, leg, foot, toes. Then, predict how Ozobot will perform a Zigzag.

Place the Color Code Magnets in the below configuration.



Run the bot from Start and observe how the Zigzag code programs Ozobot to move.

Predict how Ozobot will perform a Backwalk and let students demonstrate their predictions.

Turn the Zigzag Color Code Magnet around so the code is Backwalk when the bot is traveling from Start. Observe how the Backwalk code programs Ozobot to move.

On the Everybody and Nobody Chart answer the questions one at a time. Note that students may need to run the bot multiple times to see the similarities and differences.

Special Moves Kit Lesson 2

Zigzag and Backwalk: Just Dance

Name:_____

Date:_____

Everybody and Nobody Chart

What is a similarity that **everybody** would think of?	What is a similarity that **nobody** would think of?
What is a difference that **everybody** would think of?	What is a difference that **nobody** would think of?

Special Moves Kit Lesson 2

Zigzag and Backwalk: Just Dance

Name:_____

Date:_____

Possible Solution

What is a similarity that **everybody** would think of?

The colors used are red, black, blue and green.

The bot moves back and forth.

What is a similarity that **nobody** would think of?

Both codes need 2 ½ inches of straight black line after the code to perform the action and continue following the line.

What is a difference that **everybody** would think of?

Zigzag faces forward, Backwalk faces backwards.

Zigzag starts with blue, Backwalk starts with red.

What is a difference that **nobody** would think of?

Zigzag the bot goes left, right, left, right. Backwalk goes left, right, left, turn around.