Special Moves Kit Lesson 3

Two kinds of U-Turn

Name:_____

Date:_____

There are two different U-Turn codes that Ozobot recognizes. One is used in the middle of lines and has three colors. The other is used at the end of a line and has two colors. Both codes program Ozobot to turn around and go back the way it came from.

Brainstorm with students situations where they might need to turn around and go another way. Configure the Color Code Magnets as shown.
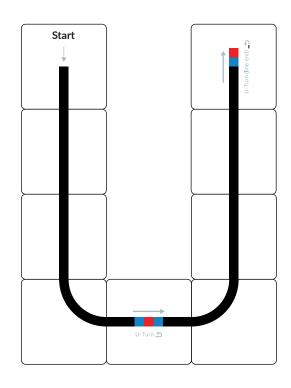
Share the following story. Run the bot from Start to demonstrate the first paragraph.

"One day Ozobot needed to go to the store and pick up a cake for its friend's birthday party. On the way to the store, Ozobot discovered that there was a parade blocking the street it needed to cross to get to the store. Ozobot decided to go back home and finish decorating for the party."

(Replace the U-Turn at the bottom of the U with a straight line. Run the bot again while reading the second paragraph.)

"A little while later, Ozobot decided to try to get to the store again. The parade had passed and the street was open again. Ozobot crossed the street and continued to the store. There was a yummy cake waiting to be picked up. Ozobot bought the cake and went back home to finish getting ready for the birthday party."

Have students create their own short stories about situations when a U-Turn might be necessary. Allow them to use the Color Code Magnets to demonstrate their story.

Note: you may need to add another magnet to the end of the pathway so the bot can successfully complete the U-Turn. Any tile will work.

Start

U-Turn (line end)

U-Turn