

Special Moves Kit Lesson 4

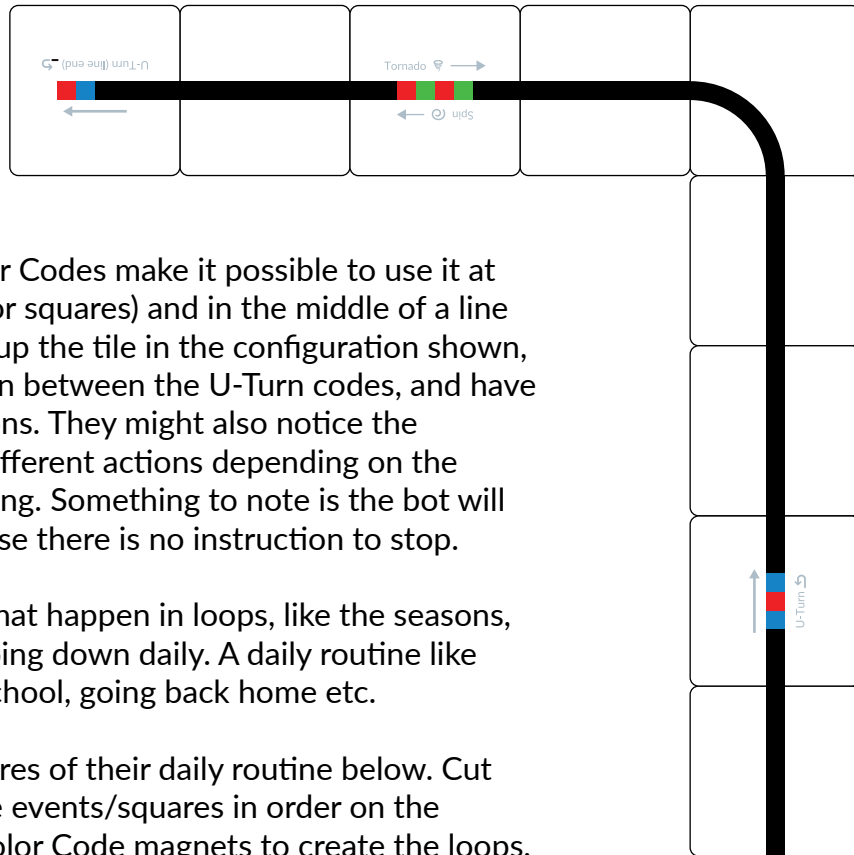
Loops, Loops, and More Loops

Name: _____

Date: _____

Usually we think of loops in a circular way, but in programming a loop is simply a program that repeats. What are some examples of things that repeat in everyday life? Some examples are going to school 5 days a week, the sun coming up every morning and setting each evening, or the hands of a clock.

One way to make loops with Color Codes is by using U-Turns.



Two types of U-Turn Color Codes make it possible to use it at the end of a line (two color squares) and in the middle of a line (three color squares). Set up the tile in the configuration shown, place the bot on the line in between the U-Turn codes, and have students make observations. They might also notice the Spin/Tornado performs different actions depending on the direction the bot is traveling. Something to note is the bot will move continuously because there is no instruction to stop.

Brainstorm occurrences that happen in loops, like the seasons, the sun coming up and going down daily. A daily routine like getting up and going to school, going back home etc.

Have students draw pictures of their daily routine below. Cut out the squares. Place the events/squares in order on the magnet board. Use the Color Code magnets to create the loops. Allow students to narrate their routine.

Home	Travel	School

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Instructions: Students only need one set of boxes for the activity. Cut page into 3 before handing out to students.

Home	Travel	School

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