

Student Activity 13: How to Repeat Your Commands

Repeating a set of commands can save you time and work. It also helps you create efficient programs. You can repeat the commands you give to Tuff-Bot when you are using the Rugged Robot app, the Tuff-Bot Online Emulator, or the TacTile Code Reader, if you have one of those.

Think of what you could do with repeat loops. You could move Tuff-Bot in various shapes, like a square, rectangle, or octagon. You could move it up or down a staircase. Choose the app you have available to you and see how to code a repeated set of commands.

Try some shapes and then use your imagination!

Coding Repeats in the Online Emulator: tuffbot.terrapinlogo.com

To start a repeat loop, click this button:



Keep clicking that button until you see the number of repeats you want.

Then add the commands you want to repeat. To end the repeat, click this button.



Here is a set of commands that will move Tuff-Bot in the shape of a square.



Coding Repeats Using the TacTile Code Reader:

To create loops with the TacTile Code Reader, you will use tiles in the Extension Tile Pack, which gives you 45 degree angles and repeat capabilities. To code Tuff-Bot to move in the shape of a square, you would use this order of tiles:



Coding Repeats in the Rugged Robot App Using Explore Mode:

Add the commands you want to repeat. (Fig. 1 below)

Click the first and last command for the set of commands you want to repeat. (Fig. 2)

Click the + symbol for the number of repeats you want. (Fig. 3 and Fig. 4)

Then press **GO** (in the app, not on Tuff-Bot).



Fig.1



Fig.2

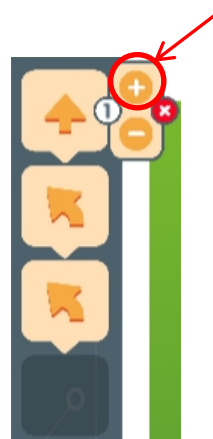


Fig. 3



Fig. 4