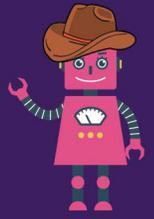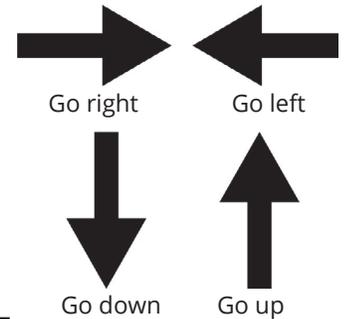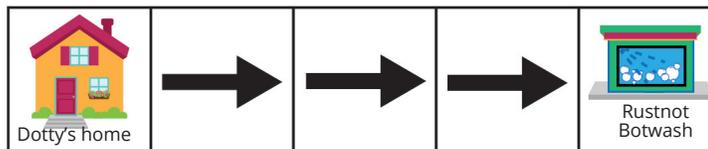# THE SOLUTIONEERS

DOTTY BOTTY'S RODEO RENDEZVOUS

Dotty the robot is going to the Robot Rodeo. Write your own code to get Dotty from her home to the Robot Rodeo in Brandenbot Gardens and make sure she gets all her errands done along the way.

WHAT DO YOU NEED?

- Grid map showing Dotty Botty's home and community sites
- Dotty Botty's errand list
- 1 small figurine or button or building block (use your imagination) to represent Dotty Botty as she moves through the community (on the grid map)
- Paper or a notebook for writing
- Pencil and eraser

WHAT DO YOU DO?

1. Print off Dotty Botty's Dotty's **TO-DO List** and **Rodeo Rendezvous Grid Map and Directional Commands**. Cut out the squares with the arrows.
2. Read Dotty's TO-DO list on the next page and find each location on the map.
3. Think about how Dotty would move from square to square to reach each location.
4. Place the cut-out arrows on the map to show how Dotty would travel to each of the locations.

Go right   Go left

Go down   Go up
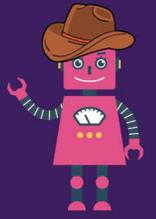
Dotty's home → → → Rustnot Botwash

5. Turn the arrows into a set of instructions (for example: go right one square, go right one square, go right one square, stop).
6. Test your instructions on a friend or family member. Give them the map, the Dotty player piece and the instructions. Can they get Dotty to the rodeo using only your instructions? If they are not quite right, can you make them better?

WHAT'S THE POINT?

Just like the Solutioneers and Maker Space crew you are writing a code! A code is a set of instructions to do specific actions. Computers use code to do many different things.

SHAFTESBURY kids

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DOTTY BOTTY'S RODEO RENDEZVOUS

In the Solutioneers episode, Riley and her teammates play with a model car that uses **block programing** to drive through a city diorama. In the Maker Space video, the crew was making instructions for the robot to pick up flags along a racecourse. You have created instructions (or code) to get Dotty to the Robot Rodeo.

An easy way to start learning to code is by using a **block-based code**. Have you tried Scratch™ or Blockly Games™ or Edu-blocks™ in school or at home?

WHAT ELSE?

Check out these cool careers:

- Step Inside Your STEM Career: Motion Capture Specialist (Career 360 Video)
- Tegan Mierle: Product Designer (Career Profile)

DOTTY BOTTY'S TO-DO LIST

Dotty wants to get all these errands done on her way to the Robot Rodeo Rendezvous. Can you help her check things off her list?

Get a WASH and polish at the Rustnot Botwash.

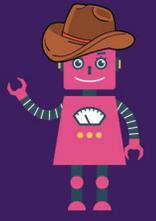Pick up a new bonnet at Bobbet's bonnet repair.

Stop in at Tops & Bottum's PhotoShop for a picture to give to my new friend, Duncan!

Pick up two Super-size BotDogs at Vinny's for Duncan and me.

Meet Duncan by the Brandenbott Gates to the Fairgrounds.

Stop for some botton candy at Flossy's in the park.

Arrive at the Robot Rodeo.

RODEO RENDEZVOUS GRID MAP AND DIRECTIONAL COMMANDS