

Student Activity 6-A: Play Mini-Golf with Tuff-Bot

Here is a game to play with Tuff-Bot outdoors. You will need a Tuff-Bot and a small ball like a ping pong ball. If you want to control Tuff-Bot remotely, you can use the Rugged Robot app. Or you can just program Tuff-Bot using its buttons.

Here is the game:

1. Find a spot in the ground where you dig a small hole. (Ask your teacher if you are allowed to dig in the spot you found. If you can't dig there, mark a spot with an X using tape.)
2. Place Tuff-Bot in a different location, a few yards away from the hole.
3. Place the small ball right in front of Tuff-Bot. When Tuff-Bot moves, it will push the ball in the direction it is moving. When you turn Tuff-Bot, the ball will also adjust its course.
4. Give Tuff-Bot commands to push the ball into the hole. It may take several sets of commands. Write down the list of commands you used.
5. Repeat with a new hole (or location) for Tuff-Bot to push to the ball to.

As you play, write down notes about anything unexpected that happened. If something didn't go right, how did you fix it?

Can you get a hole in one?

