

## Teacher Lesson 1: Meet Tuff-Bot

Tuff-Bot is fun and easy to use, yet it is complex enough to engage learners of all ages. Unlike other robots, Tuff-Bot is designed to be used outdoors. However, you will likely want to show your students how to use Tuff-Bot indoors.



If your students are familiar with Bee-Bot or Blue-Bot, the transition is easy. If they are new to robots, they will easily learn to navigate Tuff-Bot in a variety of situations. Tuff-Bot is designed for students in Grades 3–6, although it may be appropriate for other ages as well.

Note that before you use Tuff-Bot, you will need to charge it. A charging cable is included with Tuff-Bot. Plug one end of the cable into the Charger Socket and the other into a wall outlet or powered USB port. Make sure Tuff-Bot is turned off while it is being charged. During charging, the LED light segments will turn green to indicate the charge level. Charging takes 1–2 hours and once fully charged, Tuff-Bot can be used for 1–2 hours.

### Introducing Tuff-Bot to your Students

Show your students Tuff-Bot (not yet turned on) and ask them these questions:

- What do you think this will do?
- Which end is the front and which end is the back?
- How does it look different from Bee-Bot (if they have used Bee-Bots)?
- How do you think it works?
- Do you see some buttons on its top?
- Why do you think it has big wheels?
- Why do you think it has a hole in the middle?
- Why do you think it is called Tuff-Bot, the Rugged Robot?

Turn on Tuff-Bot.

- What does Tuff-Bot look like now?
- What has changed?

Let's take a closer look at Tuff-Bot's buttons. Then we will try out all it can do.