

Student Activity 10: Exploring the Light Sensor

Tuff-Bot has a light sensor. Do you see the small hole next to the front left wheel? That's it!



When Tuff-Bot is in a dark space, its headlights turn on. When it moves into a brighter area, the headlights turn off. This happens automatically. You don't have to do anything.

The two headlights are near the bottom of the front of Tuff-Bot, below the orange lights.



If the headlights are already off, you can make Tuff-Bot think it is dark by placing a finger over the light sensor. Then the headlights will turn on. Try it!

Can you build a tunnel for Tuff-Bot out of a large box? When Tuff-Bot is in the tunnel, its headlights will turn on. When it leaves the tunnel, the headlights will turn off.

What other ways can you think of to make the headlights turn on and off?

Can you send Tuff-Bot into shrubby areas that you can't even go, but can see if the headlights turn on?

Can you invent a game that involves the headlights? Use your imagination!