

## Teacher Lesson 10: Tuff-Bot's Light Sensor

Tuff-Bot has a light sensor that detects the amount of illumination in the environment. If the light is dim enough, the headlights automatically turn on. When Tuff-Bot moves to a brighter area, the headlights turn off.

The light sensor is the small hole that is next to front left wheel.

Tell students that if the headlights are off because the environment is bright, they can cover that small hole and see the headlights turn on. This allows them to see that the sensor is working.



Tell the students about this feature and let them explore the way the sensors work.

Encourage them to think of different ways to engage the sensors, both indoors and outside.

Can they create tunnels? Can they move underneath bushes (where they can't even go!)?

Can they invent a game that uses the light sensor?