

## Follow the Light **Answer Key**

1. Compare the “stimulus-sensor-coordinator-effector-response” framework of the human eye to the framework using a **color sensor** for a LEGO robot.

**Stimulus-to-response frameworks:**

*For the human eye:* sight of a scary object such as a wasp > two eyes > human brain > signal to leg muscles > run away from wasps

*For the LEGO color sensor:* light > EV3 color sensor > (transmission to coordinator) value sent to EV3 brick via wire > brick sends a signal to the EV3 motors > robot moves

2. Provide the logic for a program for a LEGO robot that enables it to follow a flashlight.

**Use two color sensors attached to the front of the taskbot.**

**Turn the taskbot towards the sensor (of the two) that reads the higher intensity of light.**