Follow the Light Pre-Quiz Answer Key

1. Provide a “stimulus-sensor-coordinator-effector-response” framework using human eyes as the color sensor.

Humans have two eyes that collect light that fall on objects in front of them, and help them to “see” the objects.

Stimulus-to-response framework: sight of a scary object such as a wasp > two eyes > human brain > signal to leg muscles > response: run to safety

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.