

Name: _____ Date: _____ Class: _____

Ultrasonic Sensor Post-Quiz **Answer Key**

1. How do humans sense distance?

Humans estimate distance using their eyes, which is usually not a very accurate method.

2. How do bats sense distance?

Bats sense distance using sound. They emit sound waves and receive back reflected waves. The time it takes to receive the waves back provides them with a very good estimate of the distance. This is exactly how the ultrasonic sensor estimates distance.

3. Provide an example “stimulus-sensor-coordinator-effector-response” framework using an EV3 ultrasonic sensor.

***Example:* object in front of the ultrasonic sensor > ultrasonic sensor > LEGO brick/computer > robot motor > robot moves**