**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.**

1. **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.**

1. **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**