

Touch Sensor Pre/Post Quiz **Answer Key**

1. Where on our bodies do we have touch sensors?

We have touch (or tactile) sensors on our skin all over our bodies since we feel the sense of touch everywhere.

2. Provide an example “stimulus-sensor-coordinator-effector-response” framework using the human touch sensor.

Hot object > touch it using a finger > nervous system > muscle > move finger back

3. When you press the LEGO touch sensor, what exactly happens and how does it convey the signal to the LEGO brick?

When the touch sensor button is pressed, it closes a circuit (similar to when you turn on a switch) and a current is sent to the LEGO brick, which then knows that the touch sensor button was pressed.

4. Give two examples of sensors in engineering systems that are similar to the human touch sensor.

Examples: EV3 touch sensor; sensors in the gripper of a robot