

Name: _____ Date: _____

Human and Robot Sensors Quiz **Answers**

1. How many sensors or senses do humans have? List them.

eyes (vision), ears (hearing), nose (smell), tongue (taste), skin (touch)

Additional sensors include temperature sensors, body position sensors, balance sensors and blood acidity sensors.

2. Describe how any two of those human “sensors” work.

Eyes: Take in the surrounding light and relay it to nerve cells that send images to the brain.

Ears: Take in sound waves from the air and vibrate, sending vibrations through the inner ear to hair cells that send signals through the nerves to the brain.

Nose: Particles are inhaled into the nose and nerve cells contact the particles and send signals to the brain.

Skin: Sensors all over the skin are activated and send signals to the brain through the nervous system.

Tongue: Taste buds are made of small cells that have little hairs that are activated by particles in food. The hairs send signals through nerves to the brain.

3. Give at least three examples of robot sensors that are similar to human senses.

Light and ultrasonic sensors are like eyes (vision).

Sound sensors are like ears (hearing).

Touch, pressure and temperature sensors are like skin (touch).