**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.**

1. **Describe how all of the sensors (you listed above) 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.**

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1. **Give examples of sensors in robots that your LEGO NXT robot kit does not have.**

**smell The LEGO NXT robot kit does not have a smell sensor equivalent.**

**taste No robot equivalent.**