

PRE/POST- ASSESSMENT SHEET

HOW DO HUMAN SENSORS WORK?

○ 1. What sensors or senses do we humans have ?

Eyes, Ears, Nose, Skin, Tongue, (other sensors include temperature sensors, sensors detecting body position, balance sensors, blood acidity sensors, ...)

○ 2. Describe how any two of the sensors you listed above work.

Eye – takes in light from the surroundings and relays that to nerve cells that send images to the brain

Ear – takes in sound waves from air and vibrates, sending the vibrations through inner ear to hair cells that send signals to the brain

Nose – particles are inhaled into the nose and nerve cells contact particles and send signals to the brain

Skin- sensors all over skin are activated and send signals to the brain through nervous system

Tongue- taste buds are made up of small cells that have little hairs that are activated by particles in food. These hairs send signals through nerves to the brain.

○ 3. Give examples of sensors in robots that are similar to human senses.

Eyes – light sensor, ultrasonic sensor

Ear – sound sensor

Skin – touch sensor