Exit Ticket: Sensory Stations:

Teacher notes: You can select from any of the options below that would be appropriate for your students. Several questions have been included so that you could include some sort of formative assessment each day that you are completing the stations.

Exit Ticket: A

In complete sentences, answer the following questions:

1. Explain what happens to the message sent by sensory receptors after detecting a stimulus. (Ex. Hearing a bell chime)
2. Give one example of a sensory stimulus that you explored today and how your body responded to it and how that information was processed.
3. Why is it important for sensory messages to be sent quickly to the brain or spinal cord?

Exit Ticket: B

Answer the following questions. Some may have more than one correct answer.

1. Sensory receptors send messages to the :
    a. Muscles
    b. Brain
    c. Spinal Cord
    d. Skin
2. Which of the following is an example of a sensory stimulus?
    a. Light
    b. Book page
    c. Robot code
    d. Battery
3. Sensory receptors detect _____ and send electrical signals through _____ to the brain.

Exit Ticket: C

Answer in complete sentences

1. How do AI systems like ChatGPT process information differently from human sensory systems?
2. How do they process information in similar ways to human systems?

Exit Ticket D

1. Which part of the nervous system sends signals from sensory receptors to the brain?
    a. Skin
    b. Neurons
    c. Muscles
    d. Blood vessels
2. If you were designing a robot to sense touch, what kind of sensor would you include and why? Write at least 4 sentences. Include a labeled diagram.

Exit Ticket Answer Key	
Exit Ticket A: 1. **Explain what happens to the message sent by sensory receptors after detecting a stimulus.** The electrical signals are transmitted through neurons to the brain or spinal cord, where they are processed to produce an immediate response or stored as memories. 2. **Give one example of a sensory stimulus you explored in the stations and describe how your body responded.** Example: When touching a hot surface (stimulus), thermoreceptors and pain receptors in the skin send signals to the spinal cord and brain, causing the muscles to quickly pull the hand away (response). 3. **Why is it important for sensory messages to be sent quickly to the brain or spinal cord?** Quick transmission allows the body to respond rapidly to changes or dangers in the environment, protecting the body and enabling immediate actions like reflexes. 4.	Exit Ticket B: 1. B and C 2. A 3. Sensory receptors detect **stimuli** and send electrical signals through **neurons** to the brain.
Exit Ticket C 1. AI systems process digital data (text, images, sounds) using algorithms and mathematical models, while humans sense physical stimuli and send electrical impulses through neurons. 2. They are similar in that they have inputs and outputs. A signal is received, processed and a specific reaction occurs.	Exit Ticket D: 1. B; Neurons 2. Answers will vary; check for logical sensor choice related to touch (e.g. pressure sensors, etc) and a logical explanation.