

# Nervous System Guided Notes

In order for humans to survive, they have to constantly monitor the \_\_\_\_\_.  
Sense organs interact with the nervous system to allow you to see, smell, touch, hear, and taste.  
A \_\_\_\_\_ is a change in your environment that you react to.

Parts of the nervous system:

- Central Nervous System (CNS)
  - Brain
    - Cerebrum- controls \_\_\_\_\_, thinking, feeling, movement
    - Cerebellum- controls \_\_\_\_\_ and \_\_\_\_\_
    - Brain stem- connects brain stem to spinal cord; controls \_\_\_\_\_ functions (breathing, heart beat)
  - Spinal Cord
    - Connects brain to the \_\_\_\_\_ throughout your body
    - Connected to the brain by the \_\_\_\_\_
- Peripheral Nervous System- the nerves found throughout the body
  - Sensory nerves- receive info from the \_\_\_\_\_ (like heat/cold) and send it to the CNS; send messages TO brain
  - Motor nerves- send signals to your muscles that allow you to \_\_\_\_\_; send messages FROM brain
  - Includes both \_\_\_\_\_ and \_\_\_\_\_ responses
    - Autonomic Nervous System- controls movement of heart, stomach, intestines, and glands (\_\_\_\_\_)
      - Conserves and stores \_\_\_\_\_
      - Responds quickly to \_\_\_\_\_ ("fight or flight")
    - Voluntary Nervous System- monitors movement and functions that can be controlled \_\_\_\_\_
      - Controls \_\_\_\_\_ muscles/muscles for speech and senses

Parts of the neuron

- \_\_\_\_\_ - take information to the cell body
- \_\_\_\_\_ - where the nucleus is located
- \_\_\_\_\_ - contains genetic information for the neuron
- \_\_\_\_\_ - takes information away from the cell body
- \_\_\_\_\_ - fatty material surrounding axons
- \_\_\_\_\_ - where two nerves meet

