

Name \_\_\_\_\_

## Nerves: The Messengers of the Body's Command Center

### Open-Ended Response Answer Key

1. Responses may include discussions of conditions like neuropathy, multiple sclerosis, or spinal cord injuries, as well as potential treatments such as medication, physical therapy, or neural implants.
2. Reflexes are essential for preventing injuries, such as quickly pulling your hand away from a hot object. Discuss scenarios where reflexes are crucial for safety.
3. Responses may explore the ethical considerations of enhancing nerve function and the potential benefits, such as restoring movement to paralyzed individuals.
4. Discuss the role of nerves in memory formation, including the formation and consolidation of memories in the brain, and how damage to nerves can impact memory and learning abilities.

