

The "neural chain" – 10 points

1. You will construct the neural pathways that controls a *reflex* and *voluntary response*. First, you will work on the reflex response, and then complete the same activity for the voluntary response.
2. You will use your *Neuroscience Reference Manual* to gather essential information for this activity. (Your notes may also be a resource.)
3. Use the practice diagram to plan out how the neural chain would cause a reflex or voluntary physical response. (Include any part of the CNS that would be included in the response.)
4. A "class diagram" will be created using the white board, and select students will come up to detail the neural pathway.
5. SPECIFICS OF DIAGRAM:
 - Signify the neural chain by drawing one long line depicting where the neural chain begins and ends, and signify the direction of the impulses with a series of arrows.
 - Create a key which uses color to indicate which types of neurons or parts of the central nervous system are involved with the particular process you are illustrating. (motor, sensory or interneuron)
6. You may discuss the process in pairs, and you need to be discussing the following questions with your partner:
 1. Why did you choose the specific parts of the body to illustrate how the response occurred?
 2. How did you put these parts together to create the correct pathway?
 3. In which direction does the neural information flow through the pathway at each stage of information transmission?

