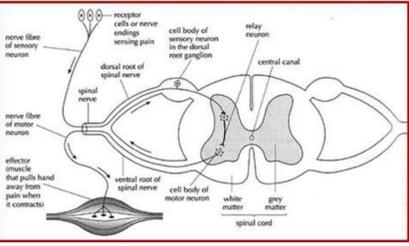
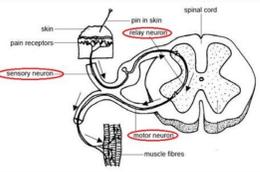


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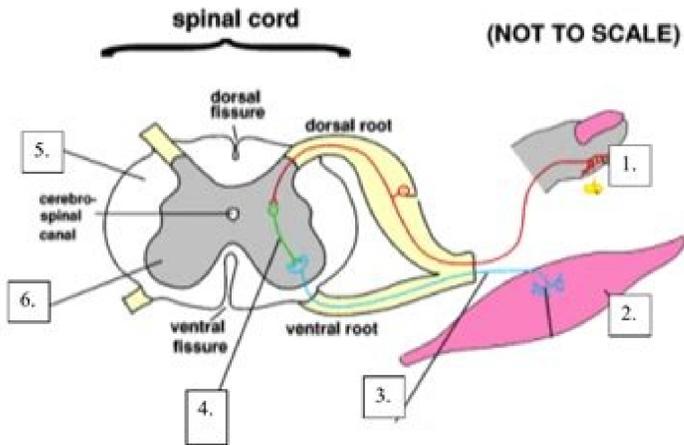
Reflex arc diagram worksheet



Name _____
The Spinal Cord and Reflexes Lab

A reflex arc represents the simplest type of nerve pathway found in the brain. It may consist of only 2 or 3 neurons. The pathway is an automatic, unconscious response to a change in the external environment and does not involve the brain. The main steps of a reflex are receptor, sensory neuron, spinal cord, motor neuron, effector and sometimes an association neuron is involved. The purpose of this activity is to review the characteristics of reflex arcs and to demonstrate some of the reflexes that occur in the human body.

Part One: Label the following parts of a basic reflex arc. #5 is a collection of axons and #6 is a collection of cell bodies.

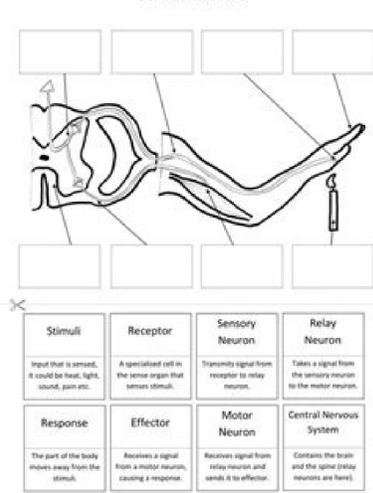


1. What is the stimulus? _____
2. What type of tissue is the effector? _____
3. How many synapses occur in this reflex arc? _____
4. Which neuron is efferent? _____
5. Which neuron is afferent? _____
6. The sensory receptors of this reflex are located in the _____
7. Sensory neurons carry impulses _____ the brain.

Part Two: Work with your lab partner to demonstrate each of the reflexes listed below. After each demonstration, record your observations in the following chart.

1. Patellar Reflex- Use the point of the reflex hammer to firmly tap the knee right underneath the patella. Observe the reaction.

A Reflex Arc



Cut out the labels for the different parts of the reflex arc.

The labels can then be folder in half and stuck down in the correct place.

Keep the information on the inside of the fold, so that you can test yourself by covering and uncovering the relevant parts.



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