

Chapter 35 Nervous System**Observing Nervous Responses****Introduction**

The nervous system runs to all parts of the body. Like a computer network, the nervous system carries impulses between the brain, the sensory organs, the muscles, and the glands.

A reflex action is a little different. It begins with a stimulated nerve, but it does not rely on the brain to produce the response. Your body performs many types of reflex actions. Sneezing is a reflex action in response to irritation of your nose. When you touch a hot object, you immediately pull your hand away. You might be aware of a reflex action occurring, but you are unable to stop or control it.

How do these reflex actions occur? When your hand touches a hot object, for example, heat receptors in the skin send an impulse to the muscles of the arm to contract. The impulse travels along the sensory neurons, to the spinal cord, across a synapse, and stimulates a motor neuron. The impulse leaves the spinal cord, passes through a nerve, and back to the arm muscles, causing them to contract and pull your hand away. This pathway is called a reflex arc. Because a reflex arc involves only the spinal cord and not the brain, a reflex action occurs in a matter of a fraction of a second. You are not able to control a reflex—it happens automatically.

In a nonreflex response, an impulse must travel to the brain. The brain interprets the stimulus and produces a response. This process takes longer than the time required for a reflex arc. A person's reaction time can be measured by how quickly he or she can perceive a stimulus and then react to it. Driving a car and playing tennis are examples of activities in which reaction time is very important.

In this investigation, you will observe reflex actions and measure your reaction time.

Problem

Can you control reflex actions? How can you measure reaction time?

Pre-Lab Discussion

Read the entire investigation. Then, work with a partner to answer the following questions.

1. What will you be comparing in this investigation?

2. Predict what will happen to your knee when it is tapped.

Observing Nervous Responses Lab Answer Key

M Mosston



Observing Nervous Responses Lab Answer Key:

Autism Spectrum Disorders (ASD) - Searching for the Biological Basis for Behavioral Symptoms and New Therapeutic Targets Benjamin Gesundheit, Joshua Rosenzweig, Yehuda Shoenfeld, 2017-03-07 Autism Spectrum Disorder ASD is currently diagnosed based on a series of behavioral tests The challenge for researchers is to try to uncover the biological basis for these typical behaviors in order to improve diagnosis and identify potential targets for treatment A multidisciplinary approach is necessary in order to move forward This includes analysis of the current animal models for ASD and their suitability reviewing immunological immunogenetic and epigenetic research reassessing clinical diagnostic tools and surveying radiological pathological and serological records for clues This volume includes research from some of the leading researchers on ASD We are hopeful that it will stimulate further dialogue and research in this challenging field

Laboratory Exercises in Anatomy & Physiology with Cat Dissections Gerard J. Tortora, 1985 **Report summaries** United States. Environmental Protection Agency, 1983 Computers and Data Processing Systems, 1962 **Nuclear Science Abstracts**, 1962 **International Review of Research in Mental Retardation** Norman R. Ellis, Norman W. Bray, 1985 **Cumulated Index Medicus**, 1967 *Government-wide Index to Federal Research & Development Reports*, 1967 Current Bibliography of Epidemiology, 1969 *U.S. Government Research Reports*, 1963 **Bibliography of Scientific and Industrial Reports**, 1965-07 **U.S. Government Research & Development Reports**, 1965 *Scientific and Technical Aerospace Reports*, 1988 Anatomy and Physiology Laboratory Manual Gerard J. Tortora, 1986

The Naval Medical Research Institute, 1942-1962 Naval Medical Research Institute (U.S.), 1966 **Current Catalog** National Library of Medicine (U.S.), 1968 Includes subject section name section and 1968 1970 technical reports

Oxford Handbook of Methods in Positive Psychology Anthony D. Ong, Manfred H. M. Van Dulmen, 2006-11-02 In the short time since the publication of the Handbook of Positive Psychology research results on the psychology of human strengths have proliferated However no major volume has documented the methods and theory used to achieve these results Oxford Handbook of Methods in Positive Psychology fills this need providing a broad overview of diverse contemporary methods in positive psychology With contributions from both leading scholars and promising young investigators the handbook serves to illuminate and at times challenge traditional approaches Incorporating multiple levels of analysis from biology to culture the contributors present state of the art techniques including those for estimating variability and change at the level of the individual identifying reliability of measurements within and across individuals and separating individual differences in growth from aspects of phenomena that exhibit shorter term variability over time The volume covers such topics as wisdom health hope resilience religion relationships emotions well being character strengths and laughter It enhances our understanding of the balance between human deficits and strengths and demonstrates their connections to other problems Oxford Handbook of Methods in Positive Psychology will be the essential reference for methods in positive psychology

Diabetes-Related Literature Index by Authors and by Key Words In the Title ,1962
Quarterly Abstract Bulletin United States. Environmental Protection Agency,1992-10
Fichtelman Nentwich,1990

EPA Publications Bibliography
Intravenous Therapy Phyllis

Decoding **Observing Nervous Responses Lab Answer Key**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Observing Nervous Responses Lab Answer Key**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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