#### Chapter III 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 stusseles, 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. Specing is a reflex action in response to irritation of your nose. When you touch a bot 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 bot 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 cond, 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 cond 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 asc. A person's maction time can be measured by how quickly he or she can perceive a stimulus and then react to it. Driving a car and playing terms 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.

- L. 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** Lipman

### **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 Diabetes-Related Literature Index by Authors and by Key Words In the Title ,1962 Government-wide Index to Federal Research & <u>Development Reports</u>, 1967 Report and Recommendations of the National Advisory Commission on Multiple Sclerosis National Advisory Commission on Multiple Sclerosis (U.S.),1974 **Scoring Rubrics in the Classroom** Judith Arter, Jay McTighe, 2001 A practical guide to more effective assessment for improved student learning Learn how to be more consistent in judging student performance and help your students become more effective at assessing their own learning This book offers a practical approach to assessing challenging but necessary performance tasks like creative writing real world research projects and cooperative group activities Judith Arter and Jay McTighe experts in the field of assessment wrote Scoring Rubrics in the Classroom to help you achieve three main goals Clarify the targets of instruction especially for hard to define problem solving Provide valid and reliable assessment of student learning Improve student motivation and achievement by helping students understand the nature of quality for performances and products Each chapter is framed by an essential question and includes illustrative stories practical examples tips and cautions and a summary of key points and recommended resources for further information The resources section contains a wealth of rubrics to adopt or adapt Teachers and administrators will find this an essential resource in increasing teacher effectiveness and student performance

Energy Research Abstracts ,1979 Supporting Teacher Development Debra Eckerman Pitton,2016-04-14 This text provides opportunities for administrators to use evaluation processes more effectively to support teacher development Through the use of practice scenarios and communication exercises principals can develop a more supportive relational process for teacher evaluation Too often principals provide evaluation feedback in ways that do not resonate with teachers This text examines the communicative process and provides practice and skill building opportunities that will enable principals to develop supportive environments that help teachers continue to grow INT'L REV OF RESR IN MNTL RETARDTN V13 Technical Abstract Bulletin Defense

Report summaries United States. Environmental Protection Agency, 1983 The Star Gate Archives Edwin C. May, Sonali Bhatt Marwaha, 2018-10-23 Star Gate is the largest funded program in the history of psi research receiving about 19 933 million in funding from 1972 to 1995 Researchers from SRI International and later at Science Applications International Corporation in association with various U S intelligence agencies participated in this program Using the remote viewing method research focused on understanding the applicability and nature of psi in general but mostly upon informational psi Volume 1 Remote Viewing 1972 1984 and Volume 2 Remote Viewing 1985 1995 include all aspects of RV including laboratory trials and several operational results Volume 3 focuses on laboratory investigations on psychokinesis Volume 4 Operational Remote Viewing Government Memorandums and Reports includes an analysis of the applied remote viewing program and a selection of documents that provide a narrative on the behind the scenes activities of Star Gate In a total of 504 separate missions from 1972 to 1995 remote viewing produced actionable intelligence prompting 89% of the customers to return with additional missions The Star Gate data indicate that informational psi is a scientifically valid phenomenon These data have led to the development of a physics and neuroscience based testable model for the underlying mechanism which considers informational psi as a normal albeit atypical phenomenon The Star Gate data found insufficient evidence to support the causal psi psychokinesis hypothesis Biology Eric Strauss, Marylin Lisowski, 2000 Biopac Laboratory Exercises Richard G. Pflanzer, 2004-01-22 Home Economics Research Report ,1961 Current Bibliography of Epidemiology, 1969 Monthly with annual cumulations Comprehensive current index to periodical medical literature intended for use of practitioners investigators and other workers in community medicine who are concerned with the etiology prevention and control of disease Citations are derived from MEDLARS tapes for Index medicus of corresponding date Arrangement by 2 sections i e Selected subject headings and Diseases organisms vaccines No author index Cerebrovascular Bibliography ,1962 **Nuclear Science Abstracts** ,1962

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