Unit 02: Psych Acc Chapter 6 Brain Anatomy - SEMESTER Fall or Spring

Content Area: **Science**
Course(s): **Psychology**
Time Period: **Generic Time Period**
Length: **6 weeks**
Status: **Published**

Unit Introduction

Standards

Source: TOPSS: National Standards for High School Psychology Curricula

Standards Area: Biological Bases of Behavior

Content Standards

After concluding this unit, students understand:

1. Structure and function of the nervous system in human and non-human animals
2. Structure and function of the endocrine system
3. The interaction between biological factors and experience
4. Methods and issues related to biological advances

Content Standards With Performance Standards
Content Standard 1: Structure and function of the nervous system in human and non-human animals
Students are able to (performance standards):

1.1 Identify the major divisions and subdivisions of the human nervous system.

1.2 Identify the parts of the neuron and describe the basic process of neural transmission.

1.3 Differentiate between the structures and functions of the various parts of the central nervous system.

1.4 Describe lateralization of brain functions.

1.5 Discuss the mechanisms of, and the importance of, plasticity of the nervous system.

Content Standard 2: Structure and function of the endocrine system
Students are able to (performance standards):

2.1 Describe how the endocrine glands are linked to the nervous system.

2.2 Describe the effects of hormones on behavior and mental processes.

2.3 Describe hormone effects on the immune system.

Content Standard 3: The interaction between biological factors and experience
Students are able to (performance standards):

3.1 Describe concepts in genetic transmission.

3.2 Describe the interactive effects of heredity and environment.

3.3 Explain how evolved tendencies influence behavior.

Content Standard 4: Methods and issues related to biological advances
Students are able to (performance standards):

4.1 Identify tools used to study the nervous system.

4.2 Describe advances made in neuroscience.

4.3 Discuss issues related to scientific advances in neuroscience and genetics.

Essential Questions

- How does the field of psychology examine the biological roots of how we think, feel, and act?
- What are the essential components of the nervous system and their contributions to behavior?

Goals/Objectives

- Students will be able to discuss the many parts of the brain that work together to coordinate movement and stimulate thinking and emotions.
- Students will be able to explain how the endocrine system controls and excites growth and affects emotion and behavior.
- Students will be able to identify heredity and environment and analyze how they affect your body and behavior.
- Students will understand that the nervous system helps us know how messages that are sent to and from the brain cause behavior

Content

Psychology Accelerated textbook: UNDERSTANDING PSYCHOLOGY, Glencoe, 2008

Organization of nervous system

Chemical influences on behavior

Neuroanatomy

Brain Imaging

Skills