Unit 2: Development and the Biological Bases of Behavior: Development across the lifespan and the biology of behavior

Content Area: **Social Studies**
Course(s): **Psychology**
Time Period: **September**
Length: **5 blocks**
Status: **Published**

Transfer

Development and the Biological Bases of Behavior: Development across the lifespan and the biology of behavior

Enduring Understandings

The nervous system is considered an electrochemical system.

The brain is composed of many specialized modules that work together to create mind and behavior.

There are various technologies used to study the brain.

Developmental psychology studies the physical, cognitive, and social changes that occur throughout the lifespan.

Development is a lifelong process.

Essential Questions

How do our brains change over a lifetime?

How is the teenage brain different from an adult brain?

How are gender roles and identity affected by cultural standards?

What impact can environment and culture have on the physical, cognitive, and emotional development of adolescents?

Why do you think the elderly are treated differently in various societies and cultures

Content

Psychology, Hypothesis, Theory, Basic Science, Applied Science, Scientific Method, Introspection, Psychologist, Psychiatry, Survey, Case Study, Naturalistic Observation, Correlation, Experimentation, Dependent Variable, Independent Variable, Control Group, Experimental Group, Placebo Effect, Single-Blind Study, Double-Blind Study, Neuron, Dendrite, Soma, Axon, Synapse, Terminal Buttons, Central Nervous System, Reflex, Peripheral Nervous System, Somatic Nervous System, Autonomic Nervous System, Sympathetic Division, Parasympathetic Division, Endocrine System, Hormones, Brain Lobes, Zygote, Embryo, Fetus, Teratogen, Adolescence, Puberty Fluid Intelligence, Crystallized Intelligence, Menopause, Midlife Crisis, Dementia, Bereavement, Five Stages of Dying.

Resources

Introduction to Psychology

Google Slides

Google Docs

Chromebooks

NewsEla

Selected Articles

Video Clips

Graphic Organizers

Review Guide

Important People

Wilhelm Wundt, William James, Sigmund Freud, John B. Watson, B.F. Skinner, Abraham Maslow, Carl Rogers, Jean Piaget, Edward Titchener, Max Wertheimer, Carl Rogers, Paul Brocca, Karl Wernicke, Phineas Gage, Roger Sperry, Michael Gazzaniga, Jean Piaget, Lawrence Kohlberg, Harry Harlow, Mary Ainsworth, Diana Baumrind, Elizabeth Kubler-Ross

Skills

Identify basic processes and systems in the biological bases of behavior, including parts of the neuron and the process of transmission of a signal between neurons

Discuss the influence of drugs on neurotransmitters

Describe the nervous system and its subdivisions and functions

Describe the endocrine system and its functions

Discuss the role of neuroplasticity in traumatic brain injury

Discuss psych's interest in how heredity, environment, and evolution work together to shape behavior

Predict how traits and behavior can be selected for their adaptive value

Assessments

Entrance/Exit pass
Formative: Other Evidence: Written: Narrative
Entrance/Exit pass

Journaling
Formative: Other Evidence: Written: Journal/ Diary
Journaling

Peer evaluation
Formative: Other Evidence: Other: Peer Assessment
Peer evaluation

Debate
Formative: Other Evidence: Oral: Debate

Test/Quizzes
Summative: Transfer Tasks: Test: Written

Brain Model
Summative: Transfer Tasks: Project: Visual Arts

Power Point
Summative: Transfer Tasks: Project: Technology
Create a power point on fetal development

Autobiography
Summative: Transfer Tasks: Written: Narrative
Write your autobiography projecting your life into old age and noting developmental changes

Create a Video
Summative: Transfer Tasks: Project: Technology
Video: students will view the Frontline feature on the Teenage Brain and write a reaction essay.

Standards

SCI.9-12.B.1.1	Structure and function of the nervous system in human and non-human animals
SCI.9-12.B.1.1.1	Identify the major divisions and subdivisions of the human nervous system
SCI.9-12.B.1.1.2	Identify the parts of the neuron and describe the basic process of neural transmission
SCI.9-12.B.1.1.3	Differentiate between the structures and functions of the various parts of the central nervous system
SCI.9-12.B.1.1.4	Describe lateralization of brain functions
SCI.9-12.B.1.1.5	Discuss the mechanisms and the importance of plasticity of the nervous system
SCI.9-12.B.1.2	Structure and function of the endocrine system
SCI.9-12.B.1.2.1	Describe how the endocrine glands are linked to the nervous system
SCI.9-12.B.1.2.2	Describe the effects of hormones on behavior and mental processes
SCI.9-12.B.1.2.3	Describe hormone effects on the immune system
SCI.9-12.B.1.3	The interaction between biological factors and experience
SCI.9-12.B.1.4	Methods and issues related to biological advances