Unit 5- Psychological Evaluations

Content Area: Science

Course(s): Forensic Science

Time Period: January
Length: 10 Blocks
Status: Published

Enduring Understandings

Serology involves a broad scope of laboratory tests that use specific antigen and serum antibody reactions.

Blood type is an inherited trait that is a permanent feature of a person's biological makeup.

Forensic psychologists or psychiatrists assess an individual's competence to stand trial.

Psychologists determine if a mental illness mitigates a suspect's responsibility for his or her actions.

Essential Questions

What is blood and how is it analyzed by forensic investigators?

How can forensic scientists use body fluids to solve a crime?

How do human behavior and mental illness relate to matters of civil and criminal law?

Content

Vocabulary

Agglutination

Allele

Antibody

Antigen

Antiserum

Enzyme

Hemoglobin

Aggression

Antisocial personality

Automatism

Behavior modification

Child abuse

Cognitive dissonance

Criminal behavior profiling

Depersonalization

Deviant

Familicide

Modus operandi

Skills

List the A-B-O antigens and antibodies found in the blood for each of the four blood types: A, B, AB and O

Understand and describe how whole blood is typed

List and describe forensic tests used to characterize a stain as blood

List the laboratory tests necessary to characterize seminal stains

Describe the proper collection of physical evidence in a rape investigation

Define the role of the forensic psychiatric professional

Differentiate forensic psychiatry from clinical psychiatry

Identify tests used for psychiatric assessment

Analyze techniques used to deal with deception

Assess competence and sanity

Profile the perpetrator and the victim

Define the killer's domain

Resources

- Teacher's Wraparound Edition for Forensic Science: An Introduction, 2nd Edition

Richard Saferstein, Forensic Science Consultant ©2011 | Prentice Hall

- Instructor's Manual with Lesson Plans for Forensic Science: An Introduction, 2nd Edition

Richard Saferstein, Forensic Science Consultant ©2011 | Prentice Hall

- Basic Laboratory Exercises for Forensic Science: An Introduction, 2nd Edition

Richard Saferstein, Forensic Science Consultant ©2011 | Prentice Hall

- Forensic Science Experiments (Facts on File Science Experiments) Hardcover - October 1, 2009

by Pamela Walker (Author), Elaine Wood (Author)

- Forensic Science Experiments on File (Facts on File Science Library) Ring-bound
- Crime Scene Investigations: Real-Life Science Labs For Grades 6-12

by Pam Walker, Elaine Wood, Christopher Stone (Illustrator)

Assessments

Project: Personal

Project: Serial Killers Students will CHOOSE a serial killer to research. They will profile both the serial killer and the victims, identify the killer's domain and describe the data used by law enforcement to identify the perpetrator.

Standards

LA.SL.11-12	Speaking and Listening
LA.SL.11-12.4	Present information, findings and supporting evidence clearly, concisely, and logically. The content, organization, development, and style are appropriate to task, purpose, and audience.
LA.SL.11-12.5	Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.
SCI.9-12.1.4	Mathematical representations are needed to identify some patterns.
SCI.9-12.1.5	Empirical evidence is needed to identify patterns.
SCI.9-12.CCC.1	Patterns.
SCI.9-12.CCC.2	Cause and effect: Mechanism and explanation.
SCI.9-12.SEP.1	Asking Questions and Defining Problems
SCI.9-12.SEP.1.a	Ask questions
SCI.9-12.SEP.1.a.1	that arise from careful observation of phenomena, or unexpected results, to clarify and/or seek additional information.
SCI.9-12.SEP.1.a.2	that arise from examining models or a theory, to clarify and/or seek additional information and relationships.
SCI.9-12.SEP.2	Developing and Using Models
SCI.9-12.SEP.3.d	Select appropriate tools to collect, record, analyze, and evaluate data.
	Events have causes, sometimes simple, sometimes multifaceted. A major activity of science is investigating and explaining causal relationships and the mechanisms by which they are mediated. Such mechanisms can then be tested across given contexts and used to predict and explain events in new contexts.

about relationships and causes underlying them.

Observed patterns in nature guide organization and classification and prompt questions