10-Document Analysis

Content Area:

Science

Course(s): Time Period:

Length:

Status:

Full Year 3 weeks Published

General Overview, Course Description or Course Philosophy

In this course, you will apply the science you've learned throughout your high school years in a variety of ways to analyze and solve cases. Various aspects of chemistry, physics, biology and physiology, to name a few, will be utilized with this course. Many of the activities will be lab-base, as this course is an applied science course. This course should prove to be intriguing, through provoking and have a "gross-factor" that should keep you entertained!

OBJECTIVES, ESSENTIAL QUESTIONS, ENDURING UNDERSTANDINGS

Students will understand that: handwriting patterns have unique characteristics and styles. They will discuss how handwriting comparisons can be made using actual samples. Finally, they will investigate how to compare ink types in a lab investigation.

CONTENT AREA STANDARDS

LA.RH.11-12.1	Accurately cite strong and thorough textual evidence, (e.g., via discussion, written response, etc.), to support analysis of primary and secondary sources, connecting insights gained from specific details to develop an understanding of the text as a whole.
LA.RH.11-12.2	Determine the theme, central ideas, information and/or perspective(s) presented in a primary or secondary source; provide an accurate summary of how key events, ideas and/or author's perspective(s) develop over the course of the text.
LA.RH.11-12.3	Evaluate various perspectives for actions or events; determine which explanation best accords with textual evidence, acknowledging where the text leaves matters uncertain.
LA.RST.11-12.7	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.
LA.RST.11-12.8	Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.
LA.RST.11-12.9	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.

RELATED STANDARDS (Technology, 21st Century Life & Careers, ELA Companion Standards are Required)

TECH.9.4.12.CT.1	Identify problem-solving strategies used in the development of an innovative product or practice (e.g., 1.1.12acc.C1b, 2.2.12.PF.3).
TECH.9.4.12.CT.2	Explain the potential benefits of collaborating to enhance critical thinking and problem solving (e.g., 1.3E.12profCR3.a).
TECH.9.4.12.DC.3	Evaluate the social and economic implications of privacy in the context of safety, law, or ethics (e.g., 6.3.12.HistoryCA.1).

STUDENT LEARNING TARGETS

Refer to the 'Declarative Knowledge' and 'Procedural Knowledge sections.

Declarative Knowledge

Students will understand:

- the importance of document analysis to forensic science
- techniques used to examine a questioned document
- how an examiner would handle cases that involve typewriters, photocopiers, printers, or faxes
- how to compare techniques used to examine types of ink
- how to protect yourself from document tampering and theft

Procedural Knowledge

Students will be able to:

- use an exemplar in handwriting analysis
- show how an examiner would deal with alterations, erasures, and obliterations
- perform a handwriting analysis
- perform ink analysis

EVIDENCE OF LEARNING

Refer to the 'Formative Assessments' and 'Summative Assessments' sections.

Formative Assessments
observation exercises
do know
exit/entrance tickets
quizzes
homework
Summative Assessments
• Benchmarks – departmental benchmark given at the end of MP1, MP2, and MP3 based on lab
practices • Alternative Assessments
 Lab inquiries and investigations
Lab Practicals
Exploratory activities based on phenomenon
Gallery walks of student work
Creative Extension Projects
Build a model of a proposed solution
• Let students design their own flashcards to test each other
 Keynote presentations made by students on a topic
 Portfolio
RESOURCES (Instructional, Supplemental, Intervention Materials)

INTERDISCIPLINARY CONNECTIONS Career planning

Mathematical Analysis

History	/case	study	Į

ACCOMMODATIONS & MODIFICATIONS FOR SUBGROUPS

See link to Accommodations & Modifications document in course folder.