

Unit 6: Handwriting/Document Analysis New

Content Area: **Basic Skills**
Course(s): **Forensics**
Time Period: **November**
Length: **1**
Status: **Published**

Unit Overview:

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Enduring Understandings:

- A person's handwriting exhibits unique characteristics that make it distinguishable from other samples.
- Chromatography shows pen samples appear consistent and could have a common source.
- Technological advances have greatly enhanced the detection of forged documents.

Essential Questions:

- What are the exemplars that can be analyzed in document/handwriting analysis?
- What does chromatography from pens show?
- What techniques can be used to determine if a document is a forgery?

Lesson Titles:

- Paper Differences
- Chromatography
- Handwriting Analysis

Career Readiness, Life Literacies & Key Skills

WRK.K-12.P.1	Act as a responsible and contributing community members and employee.
WRK.K-12.P.4	Demonstrate creativity and innovation.
WRK.K-12.P.5	Utilize critical thinking to make sense of problems and persevere in solving them.

WRK.K-12.P.8	Use technology to enhance productivity increase collaboration and communicate effectively.
WRK.K-12.P.9	Work productively in teams while using cultural/global competence.

Inter-Disciplinary Connections:

MA.K-12.1	Make sense of problems and persevere in solving them.
MA.K-12.2	Reason abstractly and quantitatively.
LA.K-12.NJSLSA.R1	Read closely to determine what the text says explicitly and to make logical inferences and relevant connections from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.
LA.K-12.NJSLSA.R2	Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.
MA.K-12.3	Construct viable arguments and critique the reasoning of others.
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.K-12.NJSLSA.R4	Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.
MA.K-12.6	Attend to precision.
LA.RH.11-12.7	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, qualitatively, as well as in words) in order to address a question or solve a problem.
LA.K-12.NJSLSA.R8	Delineate and evaluate the argument and specific claims in a text, including the validity of the reasoning as well as the relevance and sufficiency of the evidence.
LA.RST.11-12.1	Accurately cite strong and thorough evidence from the text to support analysis of science and technical texts, attending to precise details for explanations or descriptions.
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.
LA.RST.11-12.10	By the end of grade 12, read and comprehend science/technical texts in the grades 11-CCR text complexity band independently and proficiently.
LA.WHST.11-12.1	Write arguments focused on discipline-specific content.
LA.WHST.11-12.1.A	Introduce precise, knowledgeable claim(s), establish the significance of the claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that logically sequences the claim(s), counterclaims, reasons, and evidence.
LA.WHST.11-12.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
LA.K-12.NJSLSA.L1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
LA.K-12.NJSLSA.L2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.
LA.WHST.11-12.9	Draw evidence from informational texts to support analysis, reflection, and research.

Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when encountering an unknown term important to comprehension or expression.

Instructional Strategies, Learning Activities, and Levels of Blooms/DOK:

- 12 Basic Characteristics of Handwriting Analysis Lab
- Chromatography Lab
- Forensic Files Episode
- Go over Homework
- Go over Worksheet
- Handwriting Analysis Activity #2
- Handwriting Analysis Worksheet
- Level of Blooms - Applying
- Levels of Blooms - Analyzing
- Levels of Blooms - Understanding
- Literacy Strategy
- Notes/Class Discussion on Chromatography
- Notes/Class Discussion on Document Analysis
- Notes/Class Discussion on Handwriting Analysis
- Notes/Class Discussion on Paper Differences
- Paper Differences Lab (Knowns and Unknowns)
- Serial Killer related to the Topic being Covered
- Tutoring During Delsea One/Academic Enrichment

Modifications

- Tutoring During Delsea One/Academic Enrichment

Alternative assessments:

Performance tasks

Project-based assignments

Problem-based assignments

Presentations

Reflective pieces

Concept maps

Case-based scenarios

Portfolios

Benchmark Assessments:

Skills-based assessment

Reading response

Writing prompt

Lab practical

Formative Assessment:

- Anticipatory Set
- Closure
- Warm-Up

Summative Assessment:

- Alternate Assessment
- Benchmark
- Lab on Handwriting/Document Analysis
- Marking Period Assessment
- Mock Crime Cases
- Unit Quiz on Handwriting/Document Analysis
- Unit Test on Handwriting/Document Analysis

Resources & Materials:

- CSI Episode
- Paper Differences Lab Stuff
- Chromatography Lab Stuff
- FACES Software Program
- Forensic Files Episode DVD
- Magnifiers for Handwriting Analysis
- Rulers/Protractors for Handwriting Analysis Activity