

# Unit 7: Anthropology New

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

## Unit Overview:

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This unit is designed to let students explore skeletal remains and determine several features from the skeletal remains. Anatomy and physiology is incorporated into this unit.

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## Enduring Understandings:

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- By looking at the skeletal remains of a person, the race, sex, stature, and age can be determined.

## Essential Questions:

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- What can be determined by looking at the skeletal remains of a person?

## Standards/Indicators/Student Learning Objectives (SLOs):

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9-12.HS-LS3-1.1.1	Ask questions that arise from examining models or a theory to clarify relationships.
9-12.HS-LS4-5.2.1	students understand that empirical evidence is required to differentiate between cause and correlation and to make claims about specific causes and effects. They suggest cause and effect relationships to explain and predict behaviors in complex natural and designed systems. They also propose causal relationships by examining what is known about smaller scale mechanisms within the system. They recognize changes in systems may have various causes that may not have equal effects.
9-12.HS-LS1-3.3.1	Plan and conduct an investigation individually and collaboratively to produce data to serve as the basis for evidence, and in the design: decide on types, how much, and accuracy of data needed to produce reliable measurements and consider limitations on the precision of the data (e.g., number of trials, cost, risk, time), and refine the design accordingly.
9-12.HS-LS1-6.6	Constructing Explanations and Designing Solutions
9-12.HS-LS1-1.6	Constructing Explanations and Designing Solutions
9-12.HS-LS1-1.6.1	Construct an explanation based on valid and reliable evidence obtained from a variety of sources (including students' own investigations, models, theories, simulations, peer review) and the assumption that theories and laws that describe the natural world operate today as they did in the past and will continue to do so in the future.
9-12.HS-LS1-6.6.1	Construct and revise an explanation based on valid and reliable evidence obtained from a variety of sources (including students' own investigations, models, theories, simulations, peer review) and the assumption that theories and laws that describe the natural world operate today as they did in the past and will continue to do so in the future.

9-12.HS-LS2-6.7.1	Evaluate the claims, evidence, and reasoning behind currently accepted explanations or solutions to determine the merits of arguments.
9-12.HS-LS2-7.7.1	students understand much of science deals with constructing explanations of how things change and how they remain stable. They quantify and model changes in systems over very short or very long periods of time. They see some changes are irreversible, and negative feedback can stabilize a system, while positive feedback can destabilize it. They recognize systems can be designed for greater or lesser stability.
9-12.HS-PS1-3.1.1	students observe patterns in systems at different scales and cite patterns as empirical evidence for causality in supporting their explanations of phenomena. They recognize classifications or explanations used at one scale may not be useful or need revision using a different scale; thus requiring improved investigations and experiments. They use mathematical representations to identify certain patterns and analyze patterns of performance in order to reengineer and improve a designed system.
9-12.HS-PS1-2.1.1	students observe patterns in systems at different scales and cite patterns as empirical evidence for causality in supporting their explanations of phenomena. They recognize classifications or explanations used at one scale may not be useful or need revision using a different scale; thus requiring improved investigations and experiments. They use mathematical representations to identify certain patterns and analyze patterns of performance in order to reengineer and improve a designed system.
9-12.HS-PS1-4.2.1	Develop a model based on evidence to illustrate the relationships between systems or between components of a system.
9-12.HS-PS3-1.5.1	Create a computational model or simulation of a phenomenon, designed device, process, or system.
9-12.HS-PS2-3.ETS1.C.1	Criteria may need to be broken down into simpler ones that can be approached systematically, and decisions about the priority of certain criteria over others (trade-offs) may be needed.

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## Lesson Titles:

- Anthropology

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## Equity Considerations

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### Asian American and Pacific Islander Mandate

Lessons will include multiple perspectives from the Asian American and Pacific Islander population.

<https://ideas.ted.com/8-asian-americans-and-pacific-islanders-whose-innovations-have-changed-your-life-really/>

- Social

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### LGBTQ and Disabilities Mandate

Lessons will include multiple perspectives from the LGBTQ and Disabilities population, including Ben Barres

(researcher of brain cell development and disease).

## LGBTQ:

[Sir Francis Bacon \(1561–1626\)](#)

[Florence Nightingale](#)[Francis Bacon | Philosophy, Scientific Method, & Facts | Britannica](#)(1820-1910)

[George Washington Carver \(1861-1943\)](#)

[Sara Josephine Baker \(1873-1945\)](#)

[Alan Turing \(1912-1954\)](#)

[Allan Cox \(1926-1987\)](#)

[Sally Ride \(1951-2012\)](#)

[Ben Barres \(1954-2017\)](#)

[Ruth Gates \(1962-2018\)](#)

[Tim Cook \(1960\)](#)

## STEM

### Disabilities:

[Leonardo da Vinci \(1452-1519\)](#)- Dyslexia

[Isaac Newton \(1664-1727\)](#)- Epilepsy

[Thomas Edison \(1847-1931\)](#)- Hearing

[Charles Darwin \(1809-1882\)](#)- Stutter,  
Dyslexia

[Alexander Graham Bell \(1847-1922\)](#)- Deaf

[Albert Einstein \(1879-1955\)](#)- Aspergers

[Florence B. Seibert \(1897-1991\)](#)- Mobility

[Stephen Hawking \(1942-2019\)](#)- ALS

[John Forbes Nash \(1928-2015\)](#)-  
Schizophrenia

[Temple Grandin \(1947\)](#)- Autism

- Social

## Climate change

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Students will engage in discussion centered around how forensics connects to climate change.

<https://blogs.tees.ac.uk/tjuthompson/2019/09/19/forensic-science-and-climate-change/>

SCI.HS-ESS3-6	Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity (i.e., climate change).
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## Career Readiness, Life Literacies & Key Skills

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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:

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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.
LA.K-12.NJSLSA.L6	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.

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

- Body Farm Video
- Forensic Files Episode with Worksheet
- Level of Blooms - Applying
- Levels of Blooms - Analyzing
- Levels of Blooms - Evaluating
- Levels of Blooms - Understanding
- Notes/Class Discussion on Anthropology
- Serial Killer related to the Topic being Covered
- Sherlock Bones Activity
- Tutoring During Delsea One/Academic Enrichment

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### **Modifications**

- Tutoring During Delsea One/Academic Enrichment

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### **Alternative assessments:**

Performance tasks

Project-based assignments  
Problem-based assignments  
Presentations  
Reflective pieces  
Concept maps  
Case-based scenarios  
Portfolios

### **Benchmark Assessments:**

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Skills-based assessment  
Reading response  
Writing prompt  
Lab practical

### **Formative Assessment:**

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- Anticipatory Set
- Closure
- Warm-Up

### **Summative Assessment:**

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- Alternate Assessment
- Benchmark
- Lab on Anthropology
- Marking Period Assessment
- Mock Crime Cases
- Unit Quiz on Anthropology
- Unit Test on Anthropology

### **Resources & Materials:**

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- CSI Episode
- Body Farm Video
- FACES Software Program
- Forensic Files Episode DVD

- Sherlock Bones Activity Bone Sets