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A STORY™



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A

[Kentucky Archaeological] Story This Summer!



A
Kentucky
Department for
Libraries and
Archives
WEBINAR



with Dr. Philip Mink and Dr. A. Gwynn Henderson

WHAT ARE YOU READING?



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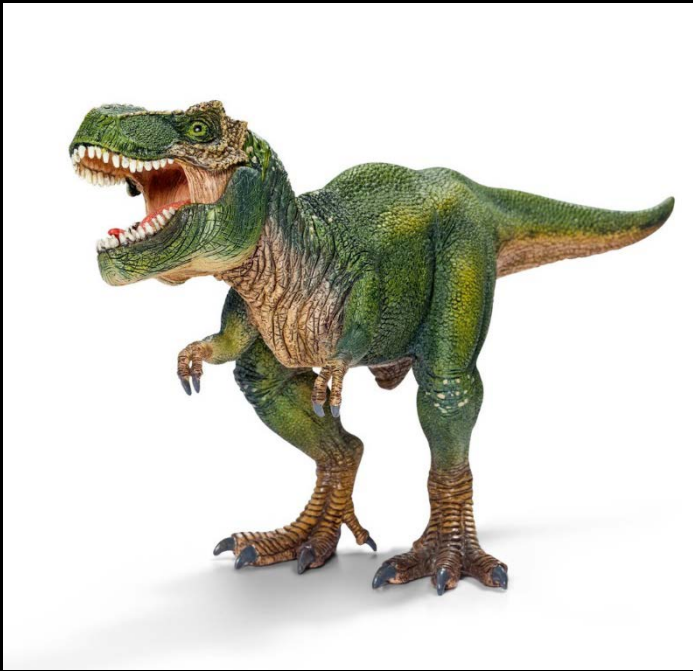
Let's begin by addressing



a confusion about archaeology.

Most People Think Archaeologists Study

Dinosaurs or Fossils



and only do this

ACTUALLY, Archaeologists Study and Find...



Archaeological Sites and Artifacts



And They Do Much More Than Excavate Sites



Work with students and teachers



Share findings with the public



Analyze artifacts; prepare reports

ARCHAEOLOGISTS

are a kind of
Anthropologist



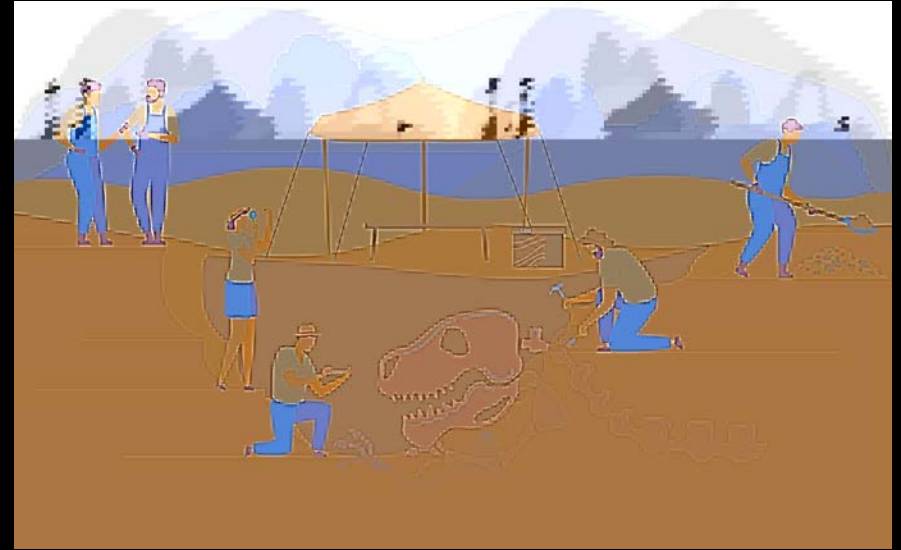
ARCHAEOLOGISTS
study objects - past people's trash
ARTIFACTS!

To learn about past people

NOT fossils or living people

Paleontologists, on the other hand...

are a kind of Geologist and Biologist



PALEONTOLOGISTS

Study **FOSSILS**
ancient plants and animals

NOT artifacts or living people

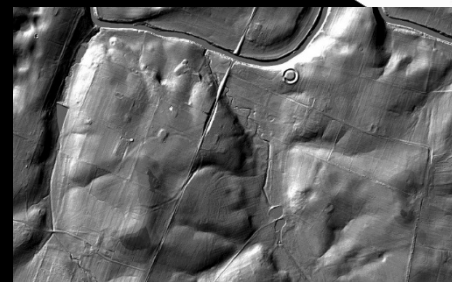
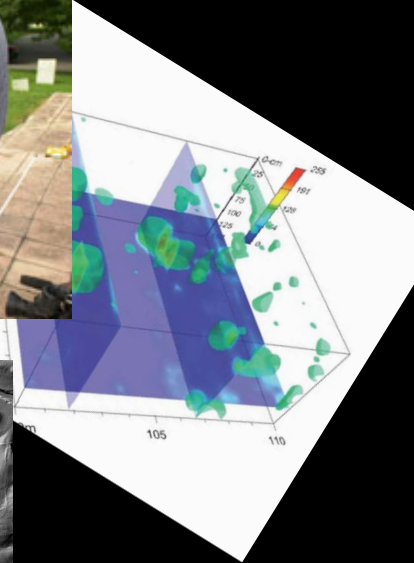
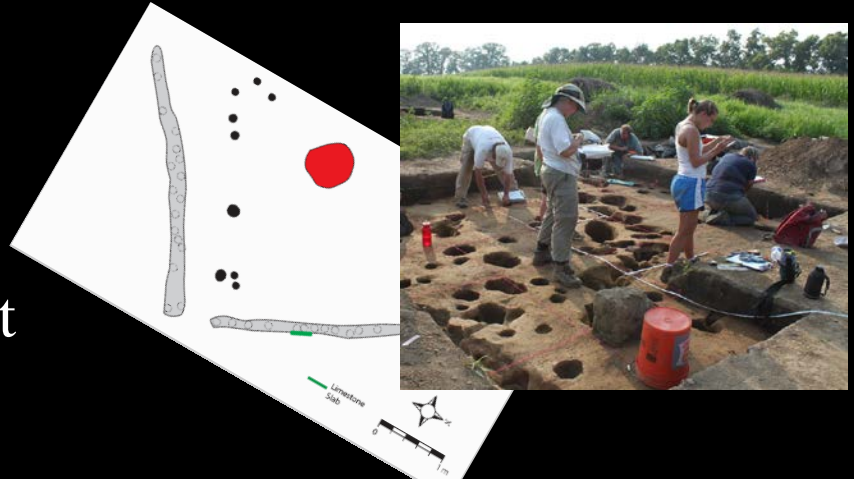
Archaeologists Use Science Methods to Study Long-ago Cultures and People



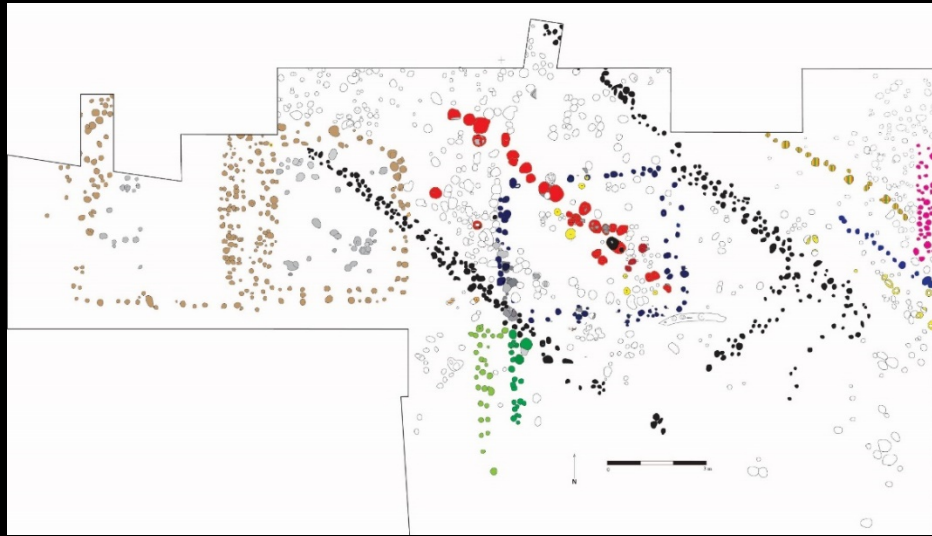
Kentucky village circa 700 CE

Scientific Archaeology

- Focus on human behavior not pretty objects
- Document, Document, Document
- Collect all types of data
- Curate materials with public institution to be studied by future generations and to test interpretations
- Publish analysis and interpretations for both public and academic audiences



CONTEXT is Everything



Overlapping footprints of many ancient American Indian houses

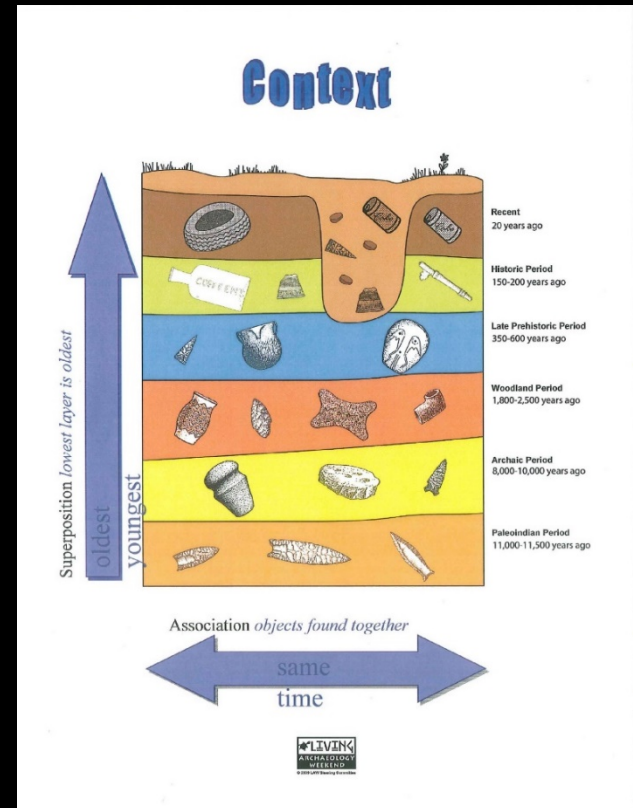
Time (When?)

How old is the artifact?
How old is the site?

Space (Where?)

Where did the artifact come from?

Where is the site located?



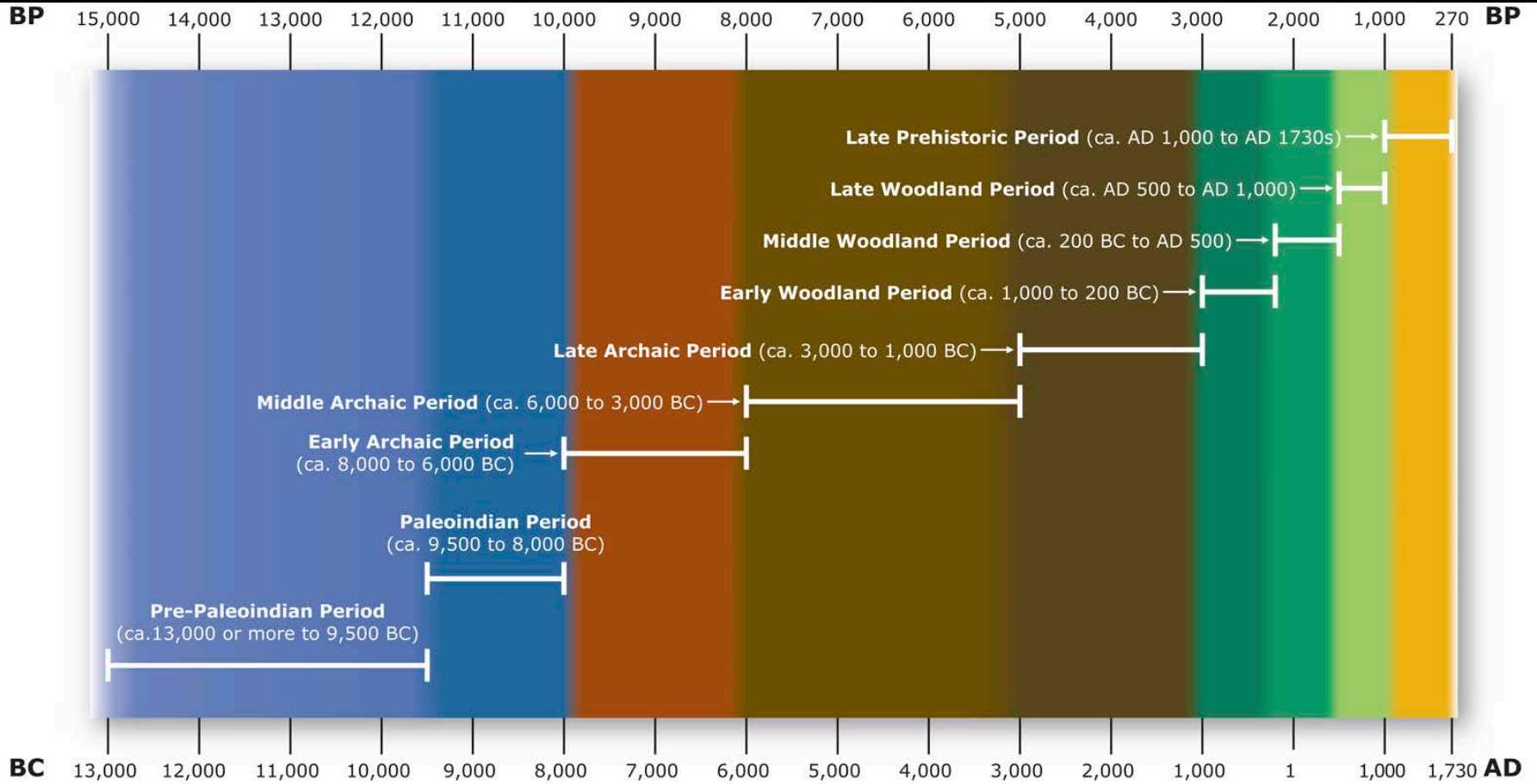
Oldest at the bottom; youngest at the top

Time



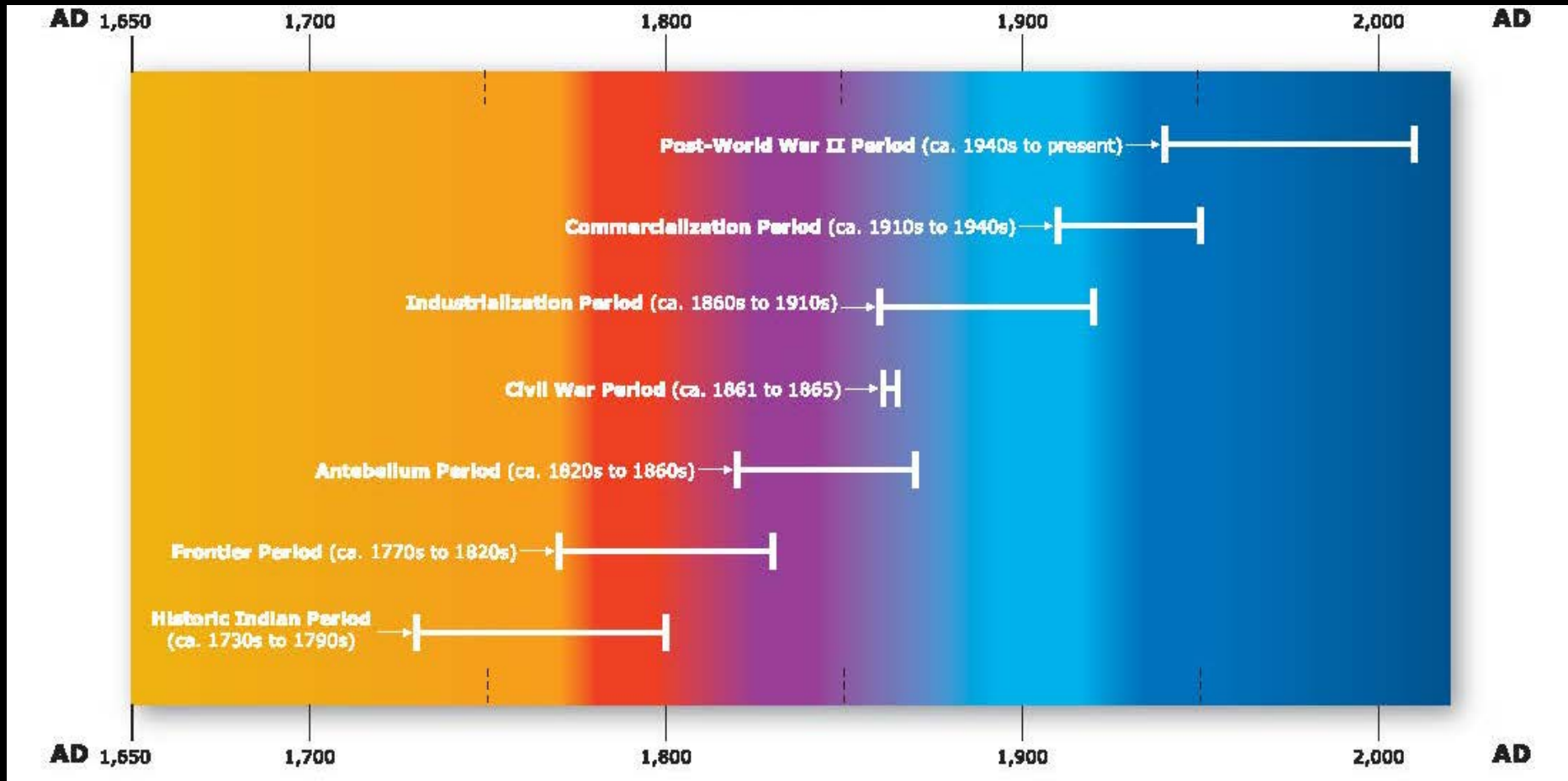
Kentucky's American Indian Era

Over 12,000 years

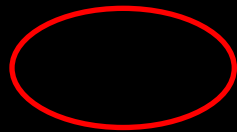
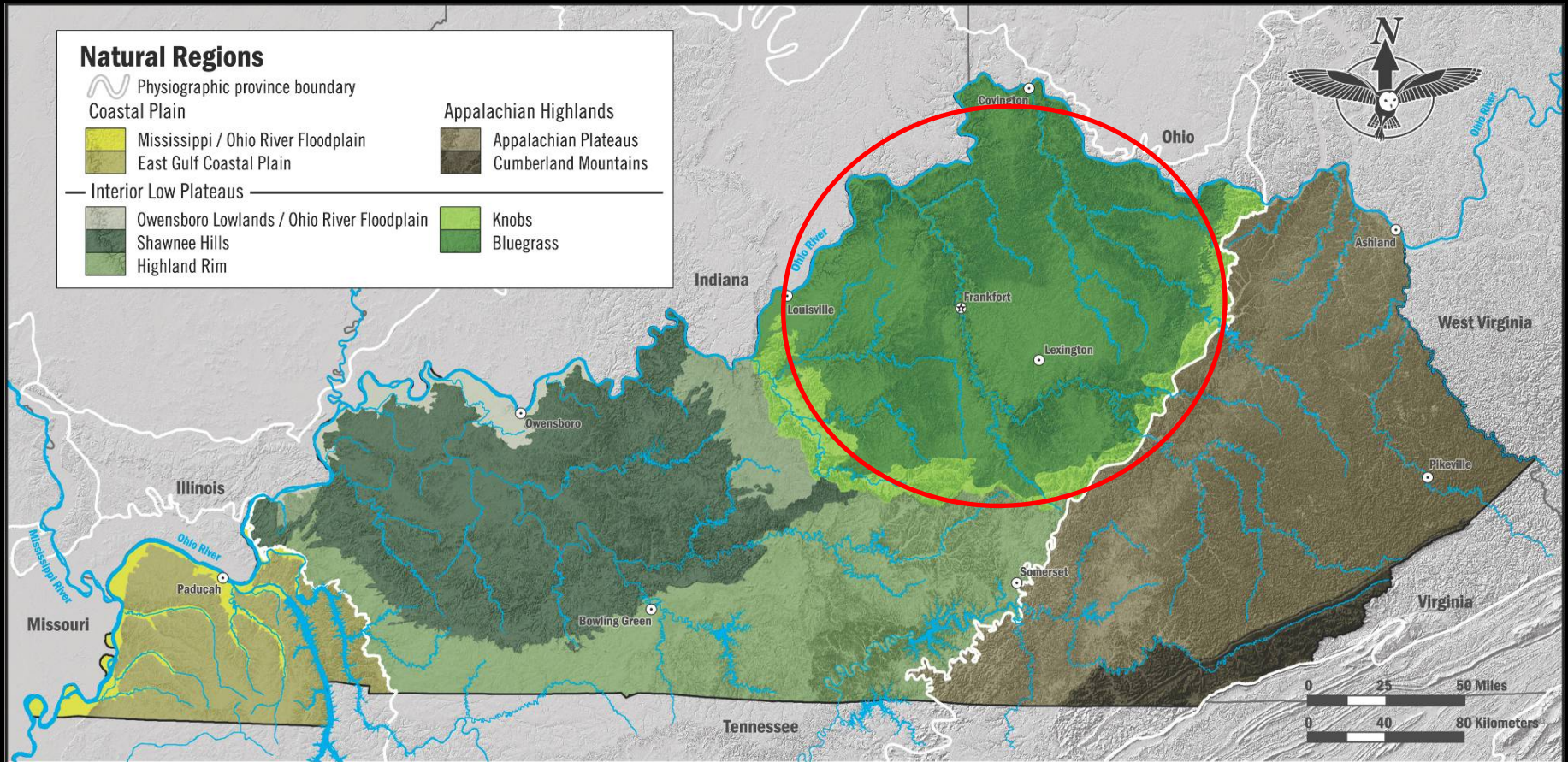


Kentucky's Euro-American and African-American Era

Nearly 500 years



Example: Bluegrass Region



Generalized Cultural Areas

Bluegrass – Eastern Section of the Interior Low Plateaus

American Indian gardeners build mounds and earthworks
Native peoples use of fire maintains the Bluegrass
American Indian farming villages, managing deer,
black locust, turkeys



Frontier stations and forts
Plantation houses and slave cabins – Barkley Plantation
Camp Nelson – Civil War encampment and quartermaster
Religious community – Pleasant Hill
African-American farmstead – Neal-Rice (4-H Camp)
Industrial – Louisville Pottery
Working-class neighborhoods – Davis Bottom, Russell
Cemeteries – Frankfort, Lexington

Artifacts,
Ashland Privy,
Lexington



Robbins Mound before excavation, Boone County

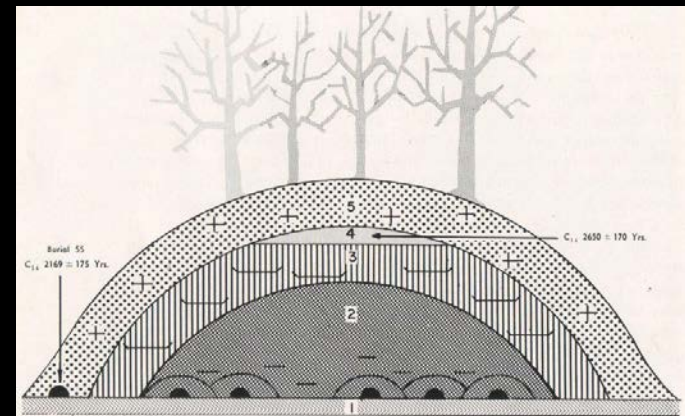


Fig. 7. Schematic profile of the Dover Mound.

1. Old humus layer.
2. Cremations under small mounds of marl;
Extended burials in bark, covered by marl.
3. Log and bark tombs in mound section of mingled loads of marl and sandy clay loam.
4. Big fired area.
5. Burials in sandy clay loam.

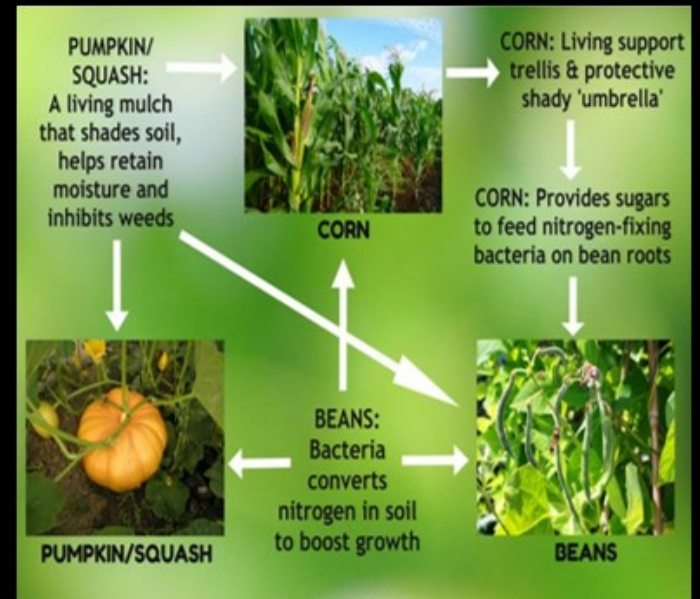
Cut-away view, Dover Mound,
Mason County



Native farming village, Mason County, circa 1475 CE



Patchwork of Slash-and-Burn farming plots



How "Three Sisters-based" agriculture works



Slash-and-Burn agricultural field



Glassware



Dr. D. Jaynes Liquid Hair Dye,
Camp Nelson, Jessamine County



Kiln washers, Lewis Pottery,
Louisville



Stoneware kiln, Louis Pottery, Louisville



Old Frankfort Cemetery



Eastern State Hospital burial ground, Lexington



Old Frankfort Cemetery



Ring and coffin hardware, Old Frankfort Cemetery



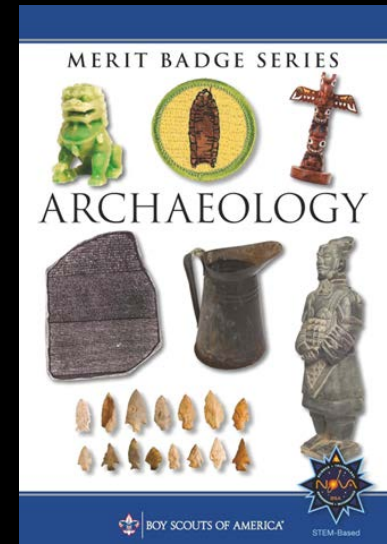
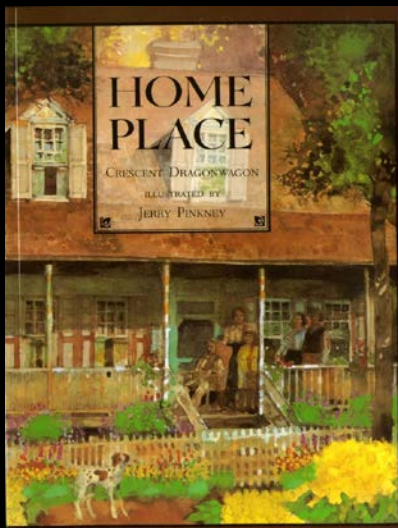
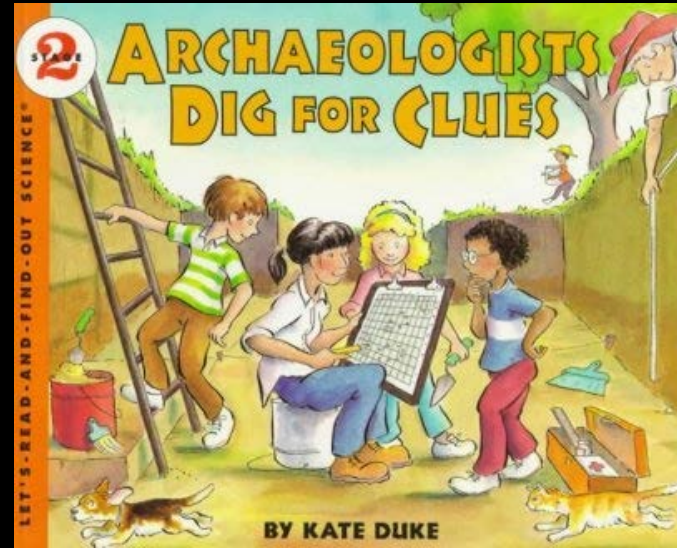
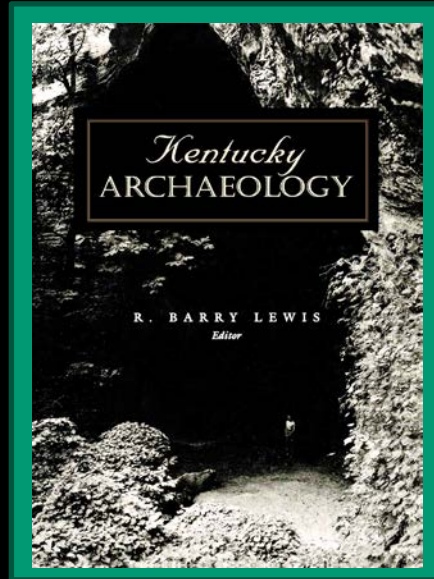
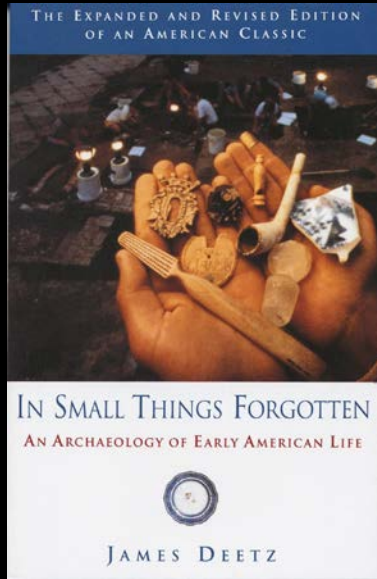
OK! Let's talk resources and ways to integrate
archaeology into your programming so you can...

UNEARTH

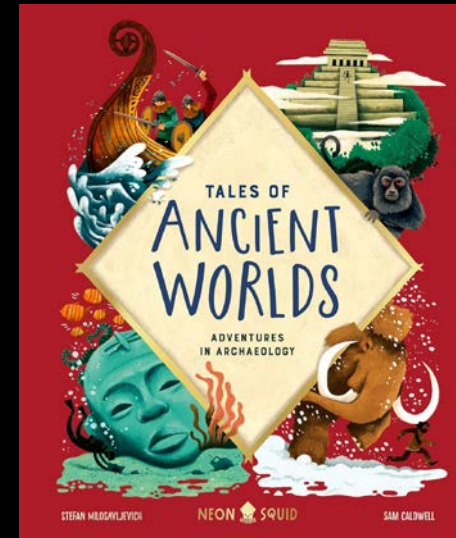
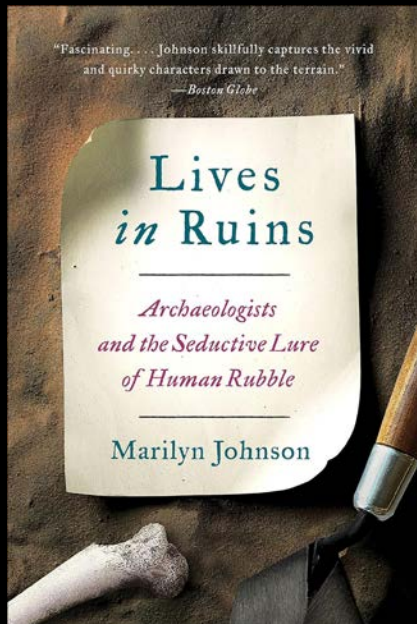
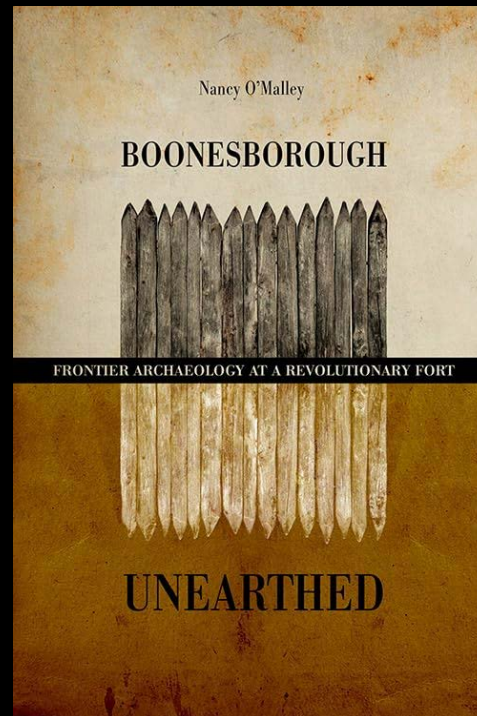
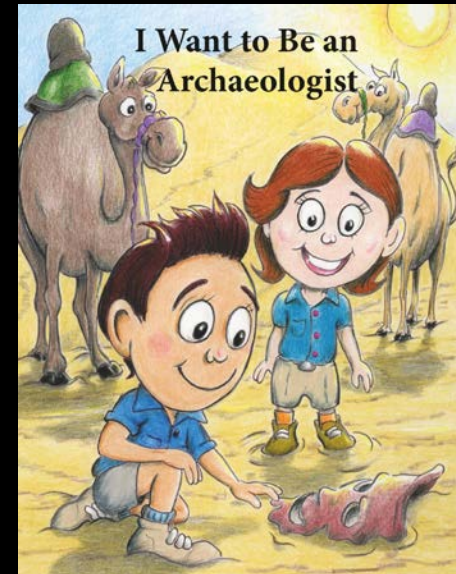
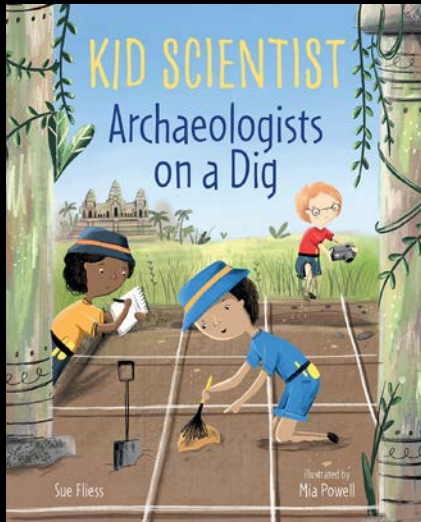
A [Kentucky Archaeological] Story!




Resources - Books/Booklets (oldies but goodies!)



Resources – Books (Recent Titles)




Resources - Websites



DISCOVER
KENTUCKY
ARCHAEOLOGY

ARCHAEOLOGY.KY.GOV

Highlighting Kentucky's
rich and diverse
archaeological record.



Brought to you by the
Kentucky Heritage Council,
the Kentucky Transportation
Cabinet and the Kentucky
Archaeological Survey.

Discover Kentucky Archaeology

<https://archaeology.ky.gov>

Short illustrated profiles on 142
Kentucky archaeological sites of all
ages and types.

Accessible on computer or phone.

Searchable by county, site type,
site age

Resources - Websites

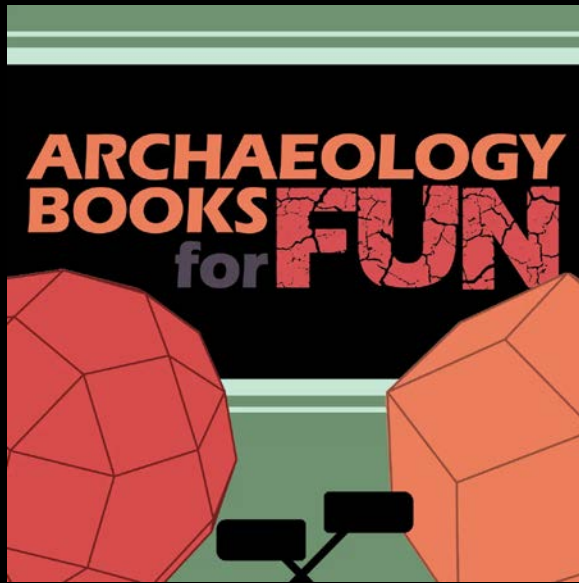


The Archaeology Channel

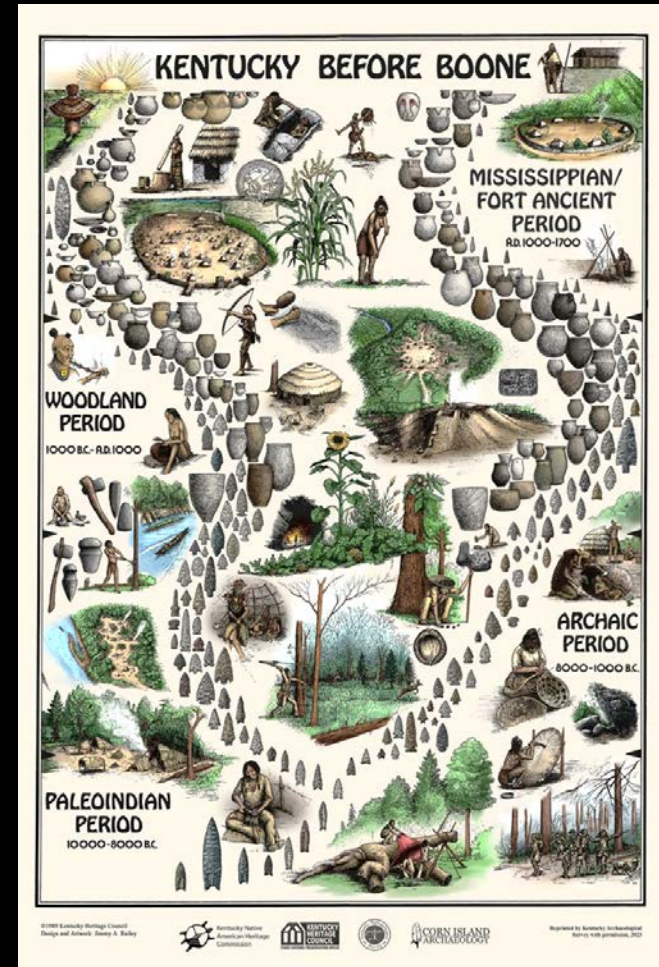
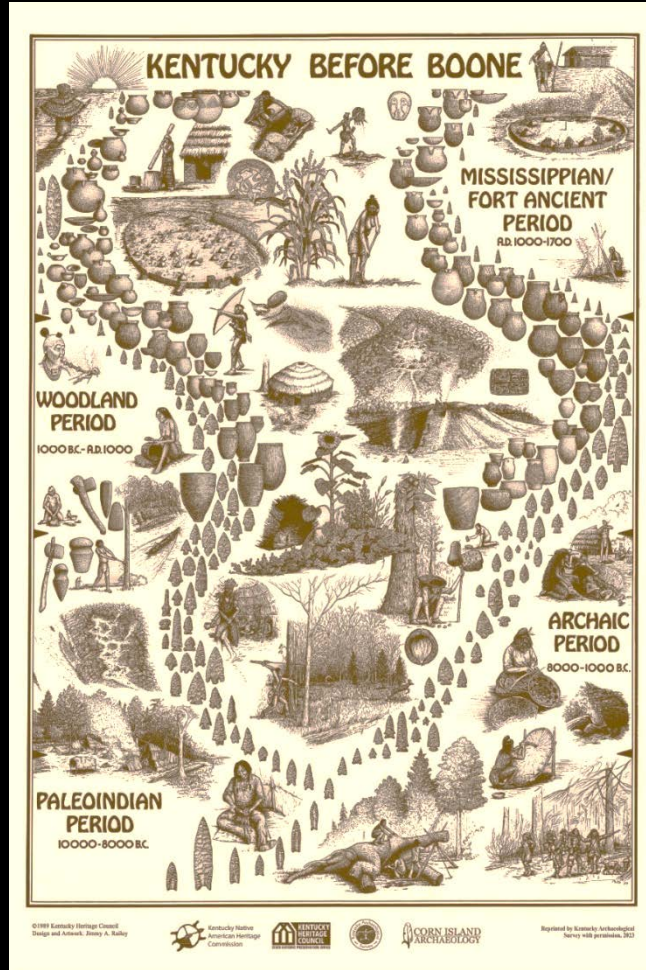


Resources - Podcasts

Archaeology and Material Culture.
What does all this stuff say about us?



Resources - Posters



Kentucky Native History Posters

<https://kyopa.org/kentucky-before-boone-posters/>

Annual Kentucky Archaeology Month Posters

<https://kyopa.org/kentucky-archaeology-month/>

GARDENS OF THE ANCIENT ONES

EARLY WOODLAND: 1000 BCE - CE 200

Plant cultivation began when people started experimenting with the wild plants they preferred to eat. They chose plants with larger seeds or seeds with thinner seed coats, and moved these to new locations. In this way, people selected and manipulated the plants over generations. The goal was to increase the availability, yield, and predictability of their plant foods. As the plants changed, they became domesticated. In time, people and plants grew to depend on each other.

Archaeologists refer to the native plants domesticated by Kentucky's ancient Indigenous peoples as the Eastern Agricultural Complex (EAC). Indigenous peoples domesticated at least four EAC plants between 5000-3500 years ago. Native plant domestication accelerated after 3000 years ago, at the beginning of the Early Woodland period. Increasingly sedentary peoples added gardening to their hunting, fishing, and wild plant gathering subsistence activities. Women became the gardeners. Native peoples began to make pottery in the forms of thick-walled jars and basins. Pottery quickly came into broad use during the Early Woodland period.

Archaeologists recognize the seeds of ancient domesticated plants in several ways. They compare burned seeds recovered from archaeological sites to modern seeds of known related wild plants. They uncover dense masses of ancient burned seeds within a ceramic vessel or a storage pit. They find seeds at sites far outside a plant's natural range. Archaeologists recover charred seeds from soil samples through a technique called flotation. Water that is agitated in a container floats the lighter seeds and other plant remains to the surface to be collected for analysis. Much of this evidence has been found at sites in Kentucky.

The EAC plants include squash, bottle gourd, little barley, sunflower, goosefoot, erect knotweed, marshelder, and maygrass. Squash and sunflower are modern EAC plant crops.

Several places on Earth are known as "world hearths" of plant domestication. Eastern North America, including Kentucky, is one of them.

BOTTLE GOURD
Produced edible seeds. The young fruits of gourds were likely cooked and eaten as vegetables; the hard-shelled mature gourds were used to make small containers

LITTLE BARLEY
Grain was ground into a flour or meal and added to stews and breads

MAYGRASS
Seeds provided good nutrition; leaves may have been wrapped around meats and cooked in an earth oven

SUNFLOWER
Only seeds used for making bread and cakes; seeds could be roasted and eaten as a snack

GOOSEFOOT
The entire plant is edible; greens and flowers in the spring and summer. Seeds were harvested later. May have been used as medicine

MARSHELDER
Edible oily seeds with high amounts of protein, fat, iron, and calcium; seeds were collected in fall and may have been roasted


ERECT KNOTWEED
Starchy seeds may have been soaked to make mush or meat; may also have been heated and eaten like popcorn


September 2023
KENTUCKY ARCHAEOLOGY MONTH

KYOPA
Kentucky Archaeology Month

2023 - Kentucky's Native Gardening Peoples and the Eastern Agricultural Complex



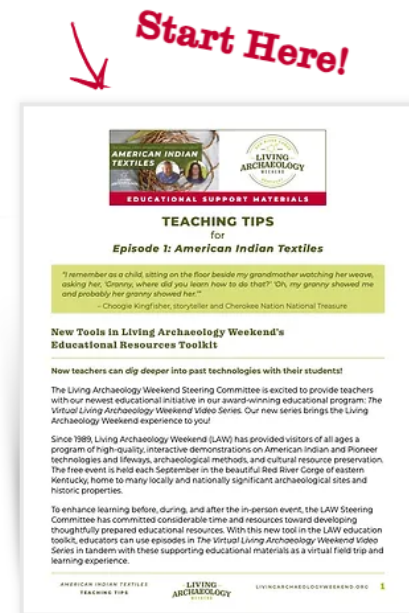
 **Fact Sheet**

 **Script**

 **Download**

About

American Indian Textiles examines the inspiration, traditions, creativity, and diversity of ancient and traditional Native American textile technologies. Viewers learn how oral history and archaeology provide insights into indigenous textile technologies used for millennia in eastern Kentucky. The program features two Living Archaeology Weekend demonstrators. Christina Pappas, an archaeologist and textiles specialist, describes the natural resources and methods American Indians used to create woven slippers from the rattlesnake master plant. Choogie Kingfisher, a storyteller and Cherokee Nation National



Support Materials for Teachers

Materials for Use with Students

Resources for Educators & Students

Short Videos and Other Resources

<https://www.livingarchaeologyweekend.org/ait-educational-materials>



Doing Archaeology

Pose research question(s)

Collect data

Analyze: classify, observe/infer, research

Draw conclusions – tell the stories

Programming

ARTIFACT Interpretation

Overview

A simple yet intriguing exercise demonstrates the amount of information that the study of a single artifact can yield about a society.

Objectives/Skills

Students will

- assess the characteristics of a society based on analysis of a single coin
- make inferences, analyze details and features, examine assumptions, brainstorm, work cooperatively, formulate questions

Subjects

Social studies

Age Level

Grades 5 through 12

Materials

- one or two pennies for each group
- paper
- pencils

Time Required

Allow 40 minutes to prepare for this activity and 40 minutes to complete it.

Background

Among the hundreds, and often thousands, of artifacts that an archaeologist finds at a site, sometimes a single object will provide an inordinate amount of detail about a society. A coin is an example because it has the potential to

reveal information about leaders, values, technological accomplishments, language, political structure, and a numerical system in operation, as well as the date of manufacture of the coin.

Studying a United States penny, students can gather certain information about the American society, such as:

1. Americans have access to minerals, presumably through mining or trade;
2. men wear or have worn facial hair;
3. Americans believe in a deity;
4. they construct open-air, monumental architecture;
5. they have knowledge of the Latin language;
6. they have a numerical system;
7. they are organized into a system of affiliated states;
8. this object is not wearable.

The temptation may exist to make inferences from the coin based on actual or modern knowledge—for example, that Americans know how to mine or that they construct buildings of stone. Both facts are true, but does the information on a penny really prove them?

Archaeologists often are faced with similar dilemmas, when a recovered object suggests that something may have occurred or existed, but further proof is needed. Armed with such circumstantial evidence, archaeologists develop new questions and hypotheses to test as they proceed with their research. While they hope that certain proof will emerge, sometimes they must state their conclusions by noting that something “may have” or “probably” occurred.

Procedure

1. Divide students into groups of three or four. Distribute one or two pen-



nies per group, and tell the groups to select one member to be responsible for recording the group's findings on paper.

2. Ask students to imagine that they are examining a single artifact, found alone, from an unknown society. Their task is to determine as many features as possible about the people who made the object.

3. When the work group time has elapsed, ask teams to present their conclusions and to describe the processes that they used to reach their decisions. Lead students in a discussion about the details that can be derived from artifacts and the problem of making assumptions based on modern knowledge and behavior. Discuss as well the cumulative process that allows archaeologists to reach larger conclusions about a population of people.

Extensions

- Present this activity using old or foreign coins.
- Ask older students to develop a schema for artifact analysis and test it on other artifacts from contemporary society.

This activity was adapted from a lesson plan provided by Leonard Istok, Hollis, NH.



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Collect data

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Analyze Objects (Artifacts)

An Object Lesson

by Susan Miner

Before visitors, especially students, can be expected to "read" museum objects on a tour, they should be given an example for practice. Whether during a pre-touring visit to a classroom, or as an introduction before entering the galleries, docents can conduct a simple "object lesson" as preparation.

Using a jar of apple pie filling as the object to be "read," let's consider and answer the following six questions:

- 1- What is the object?
- 2- For what purpose was it intended?
- 3- Who might have made, owned, used, or kept it?
- 4- What activities are associated with this object?
- 5- How does this object represent change?
- 6- How do you feel about those changes; and why do you feel that way?

The answers to these questions can quickly expand the meaning of this fairly mundane object.

1- The object is a glass jar with a paper label and painted steel lid, containing 32 ounces of prepared, apple pie filling.

2- The contents are intended to be baked into a pie and eaten. The container is meant to be thrown away or recycled.

The filling was prepared in advance as a convenience; to make a time consuming/labor intensive activity, fast and easy to accomplish. It also allows people to enjoy apples in their pie regardless of the season.

3- Those who produced, marketed, used, and disposed of this jar may include: farmers and orchard managers; seasonal labor for harvesting; factory workers and supervisors for preparing and packaging; corporate buyers; growers of sugar cane; sugar processors; spice importers; label designers; advertisers; printers; iron ore miners; steel plant workers; workers in glass factories and bottling plants; truckers and shippers; grocery store

buyers, shelf stockers, and checkers; consumers; cooks; diners; garbage haulers; landfill operators; and recyclers.

4- Activities associated with this object could be as diverse as: hiring; working; firing; cooperating; competing; selling; buying; planning or failing to plan; cooking; cleaning; dining; conversing; and keeping or breaking resolutions about eating sweets. Some symbolic activities associated with this object are: patriotism ("as American as apple pie"); wholesomeness; and traditionalism.

5- The way we get and use apples for pie has changed significantly over the years. During earlier times, apples were grown and sold locally, while in season, for use by neighboring customers who made their pies "from scratch." Today, large scale growers, mass production, rapid transport, technology, and marketing make fresh fruit available year-round, and provide time-saving, prepared pie filling for consumption. The make-up and pattern of consumption has also changed. More people live on their own as singles; and many family cooks have responsibilities outside the home, have little time to prepare meals, and may not be mothers or wives with support or assistance from partners.

6- A wide variety of feelings may be associated with these changes. Everyone should be encouraged to express opinions and to offer reasons for their point-of-view.

All of these questions, and their responses, offer docents an avenue for further discussion about the object, the culture, the time period, and so forth. The purpose of this activity is to acquaint visitors with the process of reading, interpreting, and constructing meaning from objects, and to demonstrate that even the simplest objects can offer insights into the people and time associated with it. (This exercise was



adapted from "Interpreting History through Objects" by Barbara G. Carson, *The Journal of Museum Education: Roundtable Reports*, Vol. 10, No. 3, pp. 2-5.)

Most historical objects can also be considered using this approach. Try applying the same questions asked about the apple pie filling to the buttonhook pictured above.

These questions should lead to discussions about use and obsolescence. They might even have you imagining a dialogue between a parent buttoning a child's shoes while the child hurries out to play. Perhaps you might wonder about the status and cost of buttonhooks; which type might have been given away with a new pair of shoes, and which might have been purchased as a more decorative item?

No matter what objects or phenomena a tour presents, pre-tour practice in object reading and interpretation prepares visitors for the content of the tour, equips them with important skills for participation, and helps them make personal sense out of museum collections.

Susan Miner is Education Director at the Wichita-Sedgewick County Historical Museum in Wichita, Kansas, where she has been responsible for tour development and docent supervision for 20 years. She is a frequent contributor of texts and images to The Docent Educator.

ARTIFACT ANALYSIS SHEET

Artifact:	
Sketch It. Include as much detail as possible.	Describe It.
	Shape.....
	Size.....
	Color.....
	Texture.....
	Material.....
	Decoration.....
	Explain It.
Who used the artifact?	What does it tell us about the people who used it?
How old is the artifact?	
How was the artifact used?	

Programming

Study Historical Photographs

Education Station

Lesson Idea

Picture This

USING PHOTOGRAPHS TO STUDY THE PAST

Overview

An old photograph provides a basis for discussion about life in the past, and demonstrates the value of photos as primary sources.

Objectives

Students will

- understand that photographs represent primary source material
- recognize that photos record details about the past and can be used for interpretive and comparative purposes

Subjects/Skills

- social studies, photographic arts
- observation, deduction, inference, comparison, interviewing

Age Level

Grades 4—8

Materials

- copies of the student worksheet
- old photos brought from home
- paper and pencil

Time Required

Allow one hour to prepare for this activity and 1–2 class periods to complete it.

Background

Photographs are a form of artistic expression and human record that modern people understand very well. They are used to capture peoples' lifestyles, special or historic events, candid activities, familial and social relations, artistic feelings, and even criminal deeds. Photographs of peoples who do not, or did not, keep written records some-

times provide a primary source of information about those cultures. A century ago, when having one's picture taken was a rare experience, people often posed with serious and formal expressions—creating the impression that society and people were a little dour.

For modern researchers who use photographs to glean details about the past, the adage "a picture is worth a thousand words," could not be more accurate. But despite their seeming objectivity, historic photos must be studied carefully and critically. While many scenes and events have been recorded because a photographer was "in the right place at the right time," more often photographs are, or have been, taken with purpose, forethought, and composition in mind. It is the photographer, through his or her positioning of the camera's eye, who defines a picture's content and determines what will be included or omitted in a scene.

Thus, when a photo is used as a primary source, it should be augmented by other information. Knowing who took the photo; why, when, and where it was taken; who requested it; and the identity of the subject(s) can shed additional light on the content and meaning of the image. Documents, artifacts, oral histories, and personal papers or records also can help to place a photograph into a larger pattern of events or behaviors and give it greater validity.

Historical archaeologists use old photographs in many ways. For example, by determining the earlier appearance of an area, including the landscape and structures, an archaeologist can anticipate and better interpret features found during an excavation. Photographic images also help to identify fragments of recovered objects that may appear intact in a photo.

Photographs are a particularly vivid teaching device for students because they provide views of the past for

people whose own history may be very short. They can provide a source of inquiry and explanation; and, of course, they serve a lasting purpose by stimulating the visual and mental senses.

The photo on page 7, taken in 1900 in Pensacola, Fla., portrays two people relaxing in rocking chairs, surrounded by the types of household artifacts found in many homes at the time. After analyzing the photo, students will discuss how the couple's turn-of-the-century lifestyle compares to scenes in their own family and to the observations of elders whom students have interviewed. They also will discuss how an old photograph might be useful to an archaeologist.

Preparation

1. Several days before the activity, assign students two tasks to complete.

a. Ask them to talk to an elder relative or neighbor who has lived in the same area for many years and can describe some changes that he or she has witnessed over time. As a group, the class might develop two or three questions to ask the subjects. Students should make notes during or immediately after the conversation, and bring the notes to class for the activity.

b. Ask students to find an old family photo to bring to class on the day of the activity. The image can illustrate a person, a place, or an event, but the scene should be as "unmodern" as possible. Students should know details about their picture.

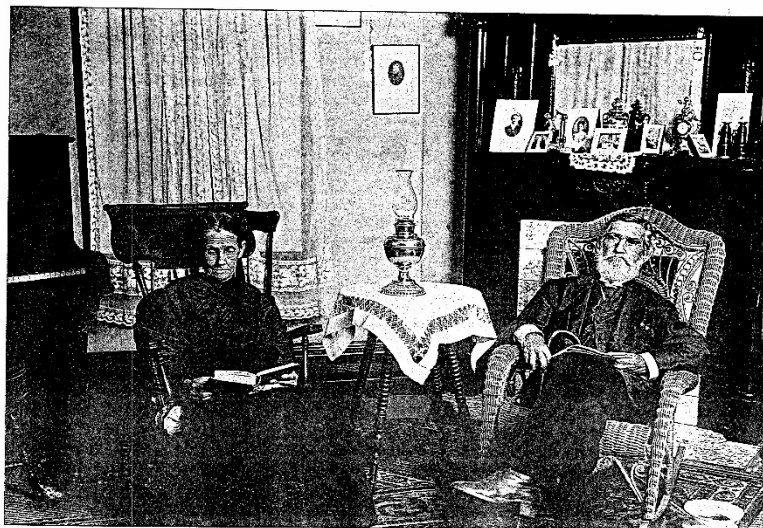
2. Decide how students will be divided into two-person teams. Make one copy of the student worksheet (page 7) for each team.

3. The day before the activity, remind students to bring their photos and interview notes to class. Instruct them not to show their pictures to classmates.

Continued on page 8

Education Station

Student Worksheet



Instructions

The way that people live and the equipment that they use changes constantly over time. We can learn about people and activities of the past from old photographs. However, when we study these images, we need to remember that the photographer probably had a specific idea in mind when she or he took the picture. We have to ask ourselves these questions:

- What does this photograph tell me?
- Why did the photographer take this picture?
- Is it a fair and accurate portrait of the past?

Examine the photograph above and answer the following questions on a separate sheet of paper.

First Impressions

1. What is your first impression about this photograph? What seems to be happening in the picture?
2. How would you describe the people (their age, clothing, expressions, relationship, economic status)?
3. Make a list of the objects in the photograph. Make another list of the kinds of technology that the people have or do not have (by today's standards).
4. When do you think the picture was taken (year, time of day)? Where was it taken? How can you tell?

Drawing Conclusions

1. Why do you think the photo was taken? Did the photographer have a message to share?
2. What does the picture tell you about the past?
3. What objects in the picture would survive over time?
4. What questions do you have about the photograph?
5. How could you get more information about the photograph and the time period in which it was taken?

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Privy Cut-away View



The Minnesota State Board of Health published this picture of the correct placement and construction of a detached house privy on page 12 in their May 1916 issue of *The Sanitary Privy*. The Board of Health used this drawing to train public health workers about how to prevent disease supplies.

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Study An Outhouse

Name _____

Strata in the Privy: Analyzing the Data

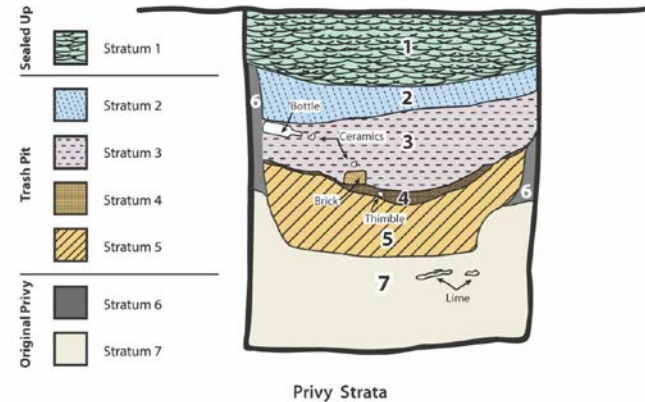
Study the north wall profile drawing of the 712 DeRoode Street privy on Page 33. Read the descriptions of the strata, the deposits, and the artifacts they contained. Then answer these questions. You may continue your answers on the back of this page.

- Apply the Law of Superposition to the Trash Pit. Which stratum is the oldest and which is the most recent?
- Based on the dates of the artifacts that archaeologists recovered from the privy:
 - When did the people living at 712 DeRoode Street dig this privy?
 - When did they clean it out?
- Lime and ash appear only in the Original Privy, the deposit containing nightsoil strata (or "poop" layers). Why did the residents stop using lime and ash after the Original Privy?
- Why is there no nightsoil in the Trash Pit?
- Compare how the residents of Davis Bottom disposed of trash and nightsoil in the 1940s to how we do it today. How is it different? Can you think of anything that is similar?
- What does the trash in the privy tell us about the people who lived in Davis Bottom?

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The Privy at 712 DeRoode Street



Privy Strata

Sealed Up. Residents sealed up the full privy/trash pit between around 1945 to the 1950s. Archaeologists found a vinyl audio record (1940), glass canning jars (1869 to 1955), glass medicine bottles (1909 to 1955), glass liquor bottles (1903 to 1955), and plastic items (1930 to now).

Stratum 1: Gray-brown Soil. Coal and cinder. Lots of building debris (window glass, nails, and brick) and household trash (glass bottles and jars, metal cans, and broken dishes).

Trash Pit. Residents cleaned-out the privy and used it as a trash pit from the 1930s to 1940s. Archaeologists base this date range on the age of a glass bottle (1911 to 1929), glass canning jars (1869 to 1955), glass medicine bottles (1938 to 1969), glass liquor bottles (1933 to 1955), a penny (1940), and plastic items (1930 to now).

Stratum 2: Brown Clay. Some household trash (glass bottles and broken dishes) and some window glass.

Stratum 3: Gray Sandy Clay. Coal and cinder. Some household trash (glass bottles and jars; broken ceramic dishes) and some building debris (window glass, nails, and brick).

Stratum 4: Coal and Cinder. A little household trash (glass bottles and jars) and a metal thimble.

Stratum 5: Yellow-brown Clay. Some household trash (glass bottles and broken dishes).

Original Privy. Residents deposited nightsoil in the privy from the 1920s to 1930s. Archaeologists base these dates on the age of the glass bottles they found: glass medicine bottles (1913 to 1938), an unidentified glass bottle (1911 to 1929), a glass liquor bottle (1929 to 1954), and a glass soda bottle (1917 to 1928).

Stratum 6: Gray-brown nightsoil (poop layer) mixed with ash. A little household trash (glass bottles and broken ceramic dishes).

Stratum 7: Black nightsoil with some lime. Lots of household trash (glass bottles, broken ceramic dishes, and animal bones).

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Programming

Steps in Making Z-Twist Cordage

The steps below assume the cordage-maker is right-handed.



Step 1



Holding Strand A and Strand B side-by-side in your left hand, pick up Strand A with your right forefinger and thumb, and twirl the strand away from your body (clockwise).

Step 2



Bring Strand A toward your body, crossing it over Strand B (counterclockwise).

Step 3



Holding strands A and B between your left forefinger and thumb - about where you crossed A over B - pick up Strand B, and twirl the strand away from your body (clockwise).

Step 4



Bring Strand B toward your body, crossing it over Strand A (counterclockwise).

Making Ancient Indigenous Cordage

Programming

- **Report an archaeological site**
- **Request help identifying an artifact**
- **Match an archaeologist from OSA's Speakers List to present at your library/event**



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And now, Q & A...