

Projectile/Arrowheads

Grade Levels: 9-12

Subject: Social Studies

Oklahoma Academic Standards | English Language Arts

9.3.W.3, 9.3.W.4, 9.3.W.5: Students will write for varied purposes and audiences in all modes, using fully developed ideas, strong, organization, well-chosen words, fluent sentences, and appropriate voice.

Lesson Summary

In this lesson, students define a projectile point. A pointed implement (usually made from chipped stone) that was attached to the end of a spear or an arrow. This is a general term that includes both spear points and what most of us know as arrowheads. Students will make an arrowhead by carving Ivory soap. Students will demonstrate their understanding of the different elements of arrowheads. Students will be assessed by matching the different elements of an arrowhead to the term.

Disclaimer: The contents of the Muscogee (Creek) Nation Teacher Fellowship, Lesson Plan Project were developed under grant PR Number S415A150008 awarded by The U. S. Department of Education. However, those contents do not necessarily represent the policy of the Department of Education and should not be assumed to be endorsed by the Federal Government. Additionally, recognizing the complex history of The Muscogee (Creek) Nation, State Tribal Education Partnerships (STEP) and Cultural Education Resource Council (CERC) made the determination to use the information herein. The lesson plans can be used to educate students and teachers about Muscogee people and history as they relate to the current Oklahoma Academic Standards. The information chosen is not to diminish other aspects of our history or notable people, nor does it imply the information within the lesson plan is the primary source of knowledge. However, it means that a consensus on what to be represented and that the compilation of The Muscogee (Creek) Nation Teacher Fellowship Lesson Plans was a CERC committee decision. We are confident as we continue to cultivate and scaffold our tribal educational resources, the lesson plans will develop into a more comprehensive tool to be used in support of the Muscogee studies public school curriculum.

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ENGAGEMENT/HOOK

- Describe how the teacher will capture students' interest.
- What kind of questions should the student ask themselves after the engagement?

Atlatl

Using the Atlatl (throwing spear) from the trunk as well as arrowheads allows students to look at, touch and discuss the items.

KWL: Projectile Points/ Arrowheads

Questions:

How would you define a projectile point?

When did Native Americans use projectile points?

What were projectile points used for?

Where were projectile points used?

Why were projectile points used by Native American people?

EXPLANATION (Teacher models)

- Student explanations should precede the introduction of terms or explanations by the teacher. What questions or techniques will the teacher use to help students connect their exploration to the concept under examination?
- List higher order thinking questions which teachers will use to solicit student explanations and help them to justify their explanations.

The atlatl or spearthrower is a hunting technology invented in th17,000 years ago by Upper Paleolithic people in Europe. Atlatls give additional velocity and thrust compared to spear-throwing, and they allow the hunter to stand farther away from the prey

The Atltrl (throwing spear) was used during the Paleolithic or Stone Age 17,000 years ago. 1700 B.C. It has been used by early Native Americans as well.

An atlatl is a slightly curved piece of wood, ivory, or bone, measuring between 5 and 24 inches (13–61 centimeters) long and between 1–3 in (2–7 cm) wide. One end is hooked, and the hook fits into the nock end of a separate spear shaft, itself between 3 to 8 feet (1–2.5 meters) in length. The working end of the shaft may simply be sharpened or be modified to include a pointed projectile point.

How would you define a projectile point?

A projectile point is a pointed implement (usually made from chipped stone) that was attached to the end of a spear or an arrow. This is a general term that includes both spear points and what most of us know as arrowheads.

When did Native Americans use projectile points? Native Americans used projectile points exclusively prior to European contact.

What were projectile points used for? Projectile points (Arrowheads) were used for hunting as well as for warfare.

ELABORATION

- Describe how students will develop a more sophisticated understanding of the concept.
- What vocabulary will be introduced and how will it connect to students' observations?

<ul style="list-style-type: none"> • <i>How is this knowledge applied in our daily lives?</i> 	<p>Where were projectile points used? Arrowheads have been found all over the North American continent.</p> <p>Why were projectile points used by Native American people? Native American people did not have metals for weapons or tools. They used the resources they had available to them and created tools from them.</p>
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<p>EXPLORATION (Guided/Independent Practice)</p> <ul style="list-style-type: none"> • <i>Describe what hands-on/minds-on activities students will be doing.</i> • <i>List “big idea” conceptual questions the teacher will use to encourage and/or focus students’ exploration.</i> 	<p>Students make an arrowhead by carving out Ivory soap. Students will demonstrate their understanding of the different elements of arrowheads.</p>
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<p>CLOSURE/EVALUATION (Pre/Post-Formal/Informal Assessments)</p> <ul style="list-style-type: none"> • <i>How will students demonstrate that they have achieved the lesson objective? How will you know they met the objective/learned the lesson?</i> • <i>This should be embedded throughout the lesson as well as at the end of the lesson.</i> 	<p>Students will be assessed by matching the different elements of an arrowhead to the term. To deepen student understanding of pre-removal, students should reflect and write a summary reflective paper with illustrative examples to connect evidence of claims.</p>
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<p>Materials Needed: Atlatl from the Education Trunk KWL Chart Pencil Ivory Soap Plastic Knives/Spoons</p>
