

Petroglyphs: Snapchat of Ancient Times

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Grade Level 9-12
Duration 1-2 class periods

National Standards

GEOGRAPHY STANDARDS

Places and Regions

4. The physical and human characteristics of places.

Human Systems

10. The characteristics, distribution and complexity of Earth's cultural mosaics.

Environment and Society

14. How human actions modify the physical environment

Arizona Standards

ELA

Reading Informational Text

9-10.RI.1 Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text

11-12.RI.9 Analyze foundational U.S. and world documents of historical and literary significance for their themes, purposes, and rhetorical features.

Language

Vocabulary Acquisition and Use

Integration of Knowledge and Ideas

9-10.L.6 and 11-12.L.6 Acquire and use accurately 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 considering a word or phrase important to comprehension or expression.

Dependent on Scenarios Created by Students for Petroglyphs

Science

HS.E1U1.11

Analyze and interpret data to determine how energy from the Sun affects weather patterns and climate.

HS+E.E1U1.4

Analyze and interpret geoscience **data** to make the claim that dynamic interactions with Earth's surface can create feedbacks that cause changes to other Earth systems.

HS.E1U3.14

Engage in argument from evidence about the availability of natural resources, occurrence of natural hazards, changes in climate, and human activity and how they influence each other.

HS+E.E1U3.11

Develop and use a quantitative model

to illustrate the relationship among Earth systems and the degree to which those relationships are being modified due to human activity.

HS.L2U3.18

Other Arizona Standards

Social Studies

Geography

Examining human population and movement helps individuals understand past,

present, and future conditions on Earth's surface.

HS.G3.1 Analyze the reciprocal nature of how historical events and the diffusion of ideas, technologies, and cultural practices have influenced migration patterns and the distribution of human population.

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Obtain, evaluate, and communicate about the positive and negative ethical, social, economic, and political implications of human activity on the biodiversity of an ecosystem.

HS+B.L4U1.2

Engage in argument from evidence that changes in environmental conditions or human interventions may change species diversity in an ecosystem.

SIOP Elements

<p>Preparation Adapting content Linking to background Linking to past learning Strategies used</p>	<p>Scaffolding Modeling Guided practice Independent practice Comprehensible input</p>	<p>Grouping Option Whole class Small groups Partners Independent</p>
<p>Integrating Processes Reading Writing Speaking Listening</p>	<p>Application Hands on Meaningful Linked to objectives Promotes engagement</p>	<p>Assessment Individual Group Written Oral</p>

Arizona English Language Proficiency Standards

Stage IV

Basic

Listening and Speaking

Standard 2 The student will express orally his or her own thinking and ideas.

B-8 delivering a prepared presentation that includes the main idea, detailed information and explanations, and a valid conclusion in simple and compound sentences.

Reading

Standard 4 The student will analyze text for expression, enjoyment, information, and understanding.

B-8 determining the main idea (explicit and implicit) and supporting details in text.

Overview

The development of means of communication has impacted man's ability to relate to others as an individual, as a group, or as a nation. Means of communication have changed from man's early days to the present but the purposes have not.

Purpose

In this lesson students will learn about one form of communication—petroglyphs. Why and how were they used, and how many other cultures also used this means of communication? This lesson contains strategies for diverse learners.

Key Vocabulary

petroglyph: a picture made by chiseling directly on the rock using a stone chisel and a hammer stone

cultural diffusion: the mixing or blending of different ideas, beliefs, and innovations from one group to another

geocontourglyph: a petroglyph that shows a landform or surrounding terrain

Snapchat: mobile messaging application used to share photos, videos, text, and drawing

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emoji: a small digital image or icon used to express an idea, emotion, place, direction, or objects

communication: the act or process of using words, sounds, signs, or behaviors to express or exchange information to one or more people

Materials

- Vocabulary cards
- Petroglyphs, the Snapchat of the Ancients PowerPoint
- Petroglyph Scoring Guide
- Vocabulary Quiz and Answer Key
- Art supplies

Objectives

The student will be able to:

1. Describe how ancient and modern man shared ideas through communication.
2. Explain how cultural diffusion played a part in the spreading of ideas and information.
3. Analyze the symbols used on petroglyphs.
4. Describe how many symbols are similar over different cultures.
5. Compare the modern emojis used on communications to ancient petroglyph symbols.

Procedures

SESSION ONE

Engage:

1. Ask students how did our ancestors communicate important information? List their ideas on the whiteboard. Show the timeline of communications found at: https://en.wikipedia.org/wiki/Timeline_of_communication_technology
2. Divide students into partner groups. Now give the groups the following scenario: "You have been transported back in time to the early 1400's and you live in the area that today is Prescott, AZ. How would you tell others critical information such as disasters, possible hunting time/areas, as well as special events that are occurring? Be sure to consider what natural materials you would have available for spreading the information." (**Preparation: Adapting content, Linking to Background, Grouping option: Partners**)
3. Have partner groups share their ideas. Either elaborate on a partner group that came up with

petroglyphs or lead students into a discussion of how the actual inhabitants of the Prescott area did communicate with petroglyphs. Show Slides 2, 3, and 4 of the petroglyphs on the Snapchat of the Ancients PowerPoint. (**Application: Linked to objectives, Scaffolding: Comprehensible input, Grouping option: Partners, Whole group**)

Explore:

1. Have partner groups create a petroglyph that clearly communicates an idea.
2. Have the rest of the students decipher the petroglyph and explain why they interpreted it in the manner they did. (**Grouping Option: Partners, Small group, Application: Hands on, Promotes engagement**)

SESSION TWO

Explain:

1. Show Slides 5-7 to give students more background about petroglyphs. Use Slide 7 to take a virtual field trip to a location with petroglyphs. (**Scaffolding: Comprehensible input**)
2. Explain the steps in Slide 8. Have partner groups create an event, a tradition, or a warning that a group of people living many years ago (before paper and writing) would want to communicate. Collect up their scenarios and put in a container. (**Application: Promotes engagement**)
3. Have partner groups draw a scenario out of the container and brainstorm what they would create for a petroglyph.
4. Show Slide 9. Share the Petroglyph Scoring Guide so students can see how their petroglyph assignment will be graded. (**Scaffolding: Comprehensible input**)
5. Distribute art supplies and have the partners create their petroglyph. (**Application: Hands on**)

Elaborate:

1. When all of the groups have finished, have each group share their petroglyph and explain what it represents. Record similarities in artwork as well as explanations on the whiteboard. (**Integrating Processes: Speaking, Listening**)
2. Show Slide 10. Have a group discussion on the 4 questions on the slide or complete as a writing assignment. (**Grouping Option: Whole class**)

Evaluate:

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1. Give the Vocabulary Test. Score students as they are presenting their explanation of the petroglyph created by them. **(Assessment: Individual, Written, Group, Oral)**

Assessment

The Vocabulary Test can be graded for accuracy. Mastery will be considered 80% or higher.

The petroglyph created and the explanation of the message can be graded using the Petroglyph Scoring Guide. Mastery will be considered 26 points or higher.

Extensions

Show Slide 11 and have table talks about these discussion topics.

Sources

Timeline of Communication

https://en.wikipedia.org/wiki/Timeline_of_communication_technology