Title

Exploring Math, Science, History and Language Arts through Lakota Art.

Grade Level

Adult learner. K-12 professional development.

Theme

Lakota art.

Duration

6 hours.

Goal

Participants will increase their understanding of Lakota art by exploring its relationship to math, science, history, and language arts.

Objectives

Participants will be able to

- 1. Identify the forms and uses of parfleche containers.
- 2. Identify the geometry in traditional designs.
- 3. Identify traditional materials and paints.
- 4. Demonstrate a basic understanding of the history of parfleche containers.

South Dakota Standards

N/A.

Cultural Concept

Lakota art.

Cultural Background

Wolakota is simply defined as peace. However, its meaning is far more extensive. It establishes a protocol that creates a safe and respectful place that allows equal participation and an equal voice.

Contemporary education compartmentalizes and modularizes curriculum. Lesson plans are specific and typically exclusive to a particular subject area such as math, science, history, or language arts. This workshop will explore the artistic aspect of Lakota culture and its relationship to a variety of subject areas. By researching and creating a parfleche box, participants will utilize math, science, history, and language arts skills. Each skill will have equal participation and an equal voice—wolakota.

Student Activities

Introductions—15 minutes Workshop overview—15 minutes Breaks and lunch—45 minutes

Student activity—4 hour, 30 minutes

Evaluation—15 minutes

1. Presenter led presentation and discussion on the history of Lakota art based on the following resources:

Amiotte, A. (1971). Introduction. In *Photographs and poems by Sioux children* (pp. 7, 9, 11, 13, 15, 17, 19). Rapid City: Tipi Shop.

- Marshall, J., III. (1995). Indian art. In *On behalf of the wolf and first peoples* (pp. 93-110). Santa Fe: Red Crane Books.
- Walker, J. R. (1982). Arts of the Sioux Indians. In *Lakota society* (R. J. DeMallie, Ed., pp. 99-107). Lincoln: University of Nebraska Press.
- 2. Presenter led presentation and discussion on the history of American Indian parfleche based on the following resources:
 - Torrence, G. (1994). The American Indian Parfleche. A tradition of abstract painting. Seattle: University of Washington Press.
 - Gruber, D. (2003). Exploring American-Indian art: making a parfleche—art projects. Arts & Activities, Retrieved June 26, 2008, from http://findarticles.com/p/articles/mi_m0HTZ/is_5_132/ai_104851002
- 3. Participants will trace, cut, and punch rawhide.
- 4. Presenter led discussion on the history of Lakota geometric designs.
- 5. Presenter led discussion on the geometry of design including mathematics of the properties, measurement, and relationships of points, lines, and angles.
- 6. Participants will create a design based on Lakota traditional colors and geometric patterns.
- 7. Presenter led discussion on the science of traditional paints.
 - Torrence, G. (1994). The American Indian Parfleche. A tradition of abstract painting. Seattle: University of Washington Press.
 - Gruber, D. (2003). Exploring American-Indian art: making a parfleche art projects. Arts & Activities, Retrieved June 26, 2008, from http://findarticles.com/p/articles/mi m0HTZ/is 5 132/ai 104851002
- 8. Participants will paint and assemble parfleche container.
- 9. Participants will present their work and explain the design and colors.
- 10. Participant led discussion of how this activity increased their knowledge of Lakota art and how they can use this activity in their classroom.
- 11. Wrap-up and evaluation (see attached evaluations form)—15 minutes.

Resources

Participant activity aids:

14" X 14" rawhide, pencil, parfleche pattern, ruler, scissors, hole punch, dry paints, water, leather for string, felt, protractor, and a flow chart template.

Assessment

References

- Amiotte, A. (1971). Introduction. In *Photographs and poems by Sioux children* (pp. 7, 9, 11, 13, 15, 17, 19). Rapid City: Tipi Shop.
- Gruber, D. (2003). Exploring American-Indian art: making a parfleche—art projects. Arts & Activities, Retrieved June 26, 2008, from http://findarticles.com/p/articles/mim0HTZ/is 5 132/ai 104851002
- Marshall, J., III. (1995). Indian art. In *On behalf of the wolf and first peoples* (pp. 93-110). Santa Fe: Red Crane Books.

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Developer

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Date

26 June 2008

Additional Information

Workshop Evaluation Form

For each of the following areas, please indicate your reaction:

Content	Excellent	Good	Needs Improvement	Not Applicable
Covered useful material.	[]	[]	[]	[]
Practical to my needs and interests.	[]	[]	[]	[]
Well organized.	[]	[]	[]	[]
Presented at the right level.	[]	[]	[]	[]
Effective activities.	[]	[]	[]	[]
Useful visual aids and handouts.	[]	[]	[]	[]
Instructor's knowledge.	[]	[]	[]	[]
Instructor's presentation style.	[]	[]	[]	[]
Instructor covered material clearly.	[]	[]	[]	[]
Instructor responded well to questions.	[]	[]	[]	[]
Instructor gave equal attention to math, science, history, and language arts.	[]	[]	[]	[]
Instructor responded well to questions.	[]	[]	[]	[]

How could this workshop be improved?

Any other comments or suggestions?