

Fishing and Native Culture

Developed by: Katie Kunze

Discipline / Subject: STEM/Social Studies

Topic: Native Alaskan culture/Natural Resource collection

Grade Level: Kindergarten-5th

Resources / References / Materials/ Teacher Needs:

~Photos included in the additional information section

Lesson Summary: Students will learn about Native Alaskan culture and how those cultures incorporate fishing into their lives.

Standards Addressed: (Local, State, or National)

1. K-2-ETS1-2: Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.
2. 3-5-ETS1-3: Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

Learning Objective:

1. Students will be able to use their research to develop and build their own structure.

Assessment:

Completed project plan with model

Procedural Activities

1. Introduce students to the various ways of native fishing including the use of fish wheels to catch fish and the various forms of drying racks used to prepare the fish for storage.
2. Have students get into teams (if you choose to do groups instead of individual projects).
3. Once the students are in groups, have them decide if they want to design a fish wheel or a fish rack.
4. Using the project design sheet, students will develop their own design including what materials they will need to build their design.
5. Have the students use their design plan to build their fish wheel or rack.
6. Having completed their build, have the students test their project and if necessary, redesign and make changes to their design.
7. Students will present their final findings from their design and building process.

Materials Students Need:

- ~Various sizes of craft sticks
- ~Twine/yarn
- ~Glue
- ~Brad fastener
- ~Paper (to make paper fish to use on their design)

Technology Utilized to Enhance Learning:

- ~Computer/Tablet for research

Other Information:**Native Musers:**

- ~George Attla: <http://attlamakingofachampion.com/>
- ~John Baker
- ~Michael Williams Jr.
- ~Mike Williams Sr.

Alaska fishing information: <http://www.adfg.alaska.gov/index.cfm?adfg=fishregulations.main>

Modifications for Special Learners/ Enrichment Opportunities:

- ~Skype with native Alaskan village
- ~Project can be completed individually or in a group setting

Additional Information

Examples of fish wheels



Examples of fish drying racks



Lake and Peninsula Borough, AK



Eagle, AK

Student Name/Group Members:

Project type:

Project Design:

Materials needed:

Construction notes:

Trial Observations:

Conclusion: