

# Berries of Interior Alaska

Alaska Standards Addressed in This Unit



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## ALASKA STANDARDS addressed in this Unit

The goals and activities of this unit address the following Alaska Science, Math and Cultural standards:

**SCIENCE:** A student who meets these standards should:

A-2 -understand the physical, chemical, and nuclear changes and interactions that result in observable changes in the properties of matter.

A-15- use science to understand and describe the local environment.

B-1 -use the process of science, including observing, classifying, measuring, interpreting data, inferring, communicating, controlling variables, developing models and theories, hypothesizing, predicting and experimenting.

**Skills and Knowledge to be acquired by the student:**

1. Ability to explain the scientific principles involved in the preservation of berries
2. Ability to demonstrate scientific skills of observation, measurement, prediction, classification, gathering and interpreting data, researching.

**MATH** A student who meets these standards should:

A-4 -represent, analyze, and use mathematical patterns, relations and functions using methods such as tables, equations and graphs.

A-6 - collect, organize, analyze, interpret, represent, formulate questions about data. Make reasonable and useful predictions about the certainty, uncertainty, or impossibility of an event.

**Skills and Knowledge to be acquired by the student:**

- 1) Ability to illustrate acquired knowledge about berries by use of tables, equations and graphs.
- 2) Ability to gather data about berries and to organize and use that data to make predictions.
- 3) Ability to use math for such daily tasks as adjusting a recipe (halving, doubling, etc.) calculating distance and amount of gas and oil needed for travel, estimating times.

**CULTURAL STANDARDS** A student who meets these standards should:

A-4 -practice their traditional responsibilities to the surrounding environment.

B-2 -make effective use of the knowledge, skills and ways of knowing from their own cultural traditions to learn about the larger world in which we live.

C-1 -perform subsistence activities in ways that are appropriate to local cultural traditions.

D-1 -acquire in-depth cultural knowledge through active participation and meaningful interaction with elders.

D-3 -interact with elders in a loving and respectful way that demonstrates an appreciation of their role as culture bearers and educators in the community.

E-2 -understand the ecology and geography of the bioregion they inhabit.

#### Skills and Knowledge to be acquired by the student:

- 1) ability to work in harmony with elders and the local environment and to explain and demonstrate key elements of the Athabascan system.
- 2) Knowledge from elders about traditional berry picking sites and practices
- 3) Ability to indicate traditional sites on a map and give relevant place names in the local language.
- 4) Ability to demonstrate traditional and contemporary methods of berry preparation and preservation; knowledge of why each practice is successful (see Science Skill #1)
- 5) Knowledge of the local bioregion as a whole and its importance to the traditional way of life