

MIDDLE SCHOOL TREE UNIT STANDARDS AND GLE'S

SCIENCE:

(7) SC2.1 Students develop an understanding of the structure, function, behavior, development, life cycles, and diversity of living organisms by describing the basic structure and function of plant and animal life.

(6) SC3.2 The student demonstrates an understanding that all organisms are linked to each other and their physical environments through the transfer and transformation of matter and energy by organizing a food web using familiar plants and animals.

CULTURAL STANDARDS:

B. Culturally-knowledgeable students are able to build on the knowledge and skills of the local cultural community as a foundation from which to achieve personal and academic success throughout life.

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

B.4. Students... identify appropriate forms of technology and anticipate the consequences of their use for improving the quality of life in the community.

C. Culturally-knowledgeable students are able to actively participate in various cultural environments.

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

D. Culturally-knowledgeable students are able to engage effectively in learning activities that are based on traditional ways of knowing and learning.

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

E. Culturally-knowledgeable students demonstrate an awareness and appreciation of the relationships and processes of interaction of all elements in the world around them.

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

E.4. Students determine how ideas and concepts from one knowledge system relate to those derived from other knowledge systems.

E.7. Students determine how cultural values and beliefs influence the interaction of people from different cultural backgrounds.

ARTS STANDARDS:

A. A student should be able to create and perform in the arts.

A.3. A student...should appropriately use new and traditional materials, tools, techniques, and processes in the arts.

B. A student should be able to understand the historical and contemporary role of the arts in Alaska, the nation, and the world.

B. 1. A student...should recognize Alaska Native cultures and their arts.

B.3. A student...should recognize the role of tradition and ritual in the arts.

HISTORY STANDARDS:

B. A student should understand historical themes through factual knowledge of time, places, ideas, institutions, cultures, people, and events:

B 1.b) A student...should comprehend the forces of change and continuity that shape human history through the following persistent organizing themes:

a. Human communities and their relationships with climate, subsistence base, resources, geography, and technology.

C. A student should develop the skills and processes of historical inquiry...and use historical perspective to solve problems, make decisions, and understand other traditions.

HEALTH STANDARDS:

C.6. A student should understand how well-being is affected by relationships with others. A student ...should assess the effects of culture, heritage, and traditions on well-being.

MATHEMATICS STANDARDS:

M4.3.5 Find the value of a variable by evaluating formulas and algebraic expressions for given values.

M.5.3.1 Identify, classify, compare, and sketch regular and irregular polygons.

M.7.3.1 Analyze and summarize a problem using the relationships between the known facts and unknown information.

M.7.3.3 Evaluate, interpret and justify solutions to problems.

M.10.3.1 Apply mathematical skills and processes to science and humanities.

ELA COMMON CORE STANDARDS:

Grade 7 #7. Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions for further research and investigation.

TECHNOLOGY:

D.1) A student should be able to use technology to express ideas and exchange information. A student...should convey ideas to a variety of audiences using publishing, multi-media, and communications tools.