Fish and Fisheries  Grade 5 Curriculum

addresses the following Alaska State Teaching Standards

Unit 1: Fish: Appearance, Behavior and Classification

Activity #1 Fish Watching
Language Arts:
A-4 Writing and speaking with purpose
B-1 Meaning from written, oral, and visual information

Science:
A-12 Biological diversity
B-1 Scientific processes
B-2 Tools of scientific investigation

Activity #2 What Is a Fish?
Language Arts:
A-4 Writing and speaking with purpose

Science:
B-1 Scientific processes
C-5 Collaboration

Activity #3 Classifying Fish
Language Arts:
A-6 Using visual communication

Science:
A-12 Biological diversity
A-14 Living things and their environments
B-3 Scientific inquiry involves multiple paths
C-5 Collaboration

Activity #4 The Outside of a Fish
Language Arts:
A-6 Using visual communication

Science:
A-12 Biological diversity
A-14 Living things and their environments
B-1 Scientific processes
C-5 Collaboration

Mathematics:
A-2 Measurement

Activity #5 What’s Inside a Fish?

Language Arts:
A-6 Using visual communication

Science:
A-12 Biological diversity
A-14 Living things and their environments
B-6 Employ safety procedures

Activity #6 Fish Printing

Arts:
A-3 Materials, tools, techniques, and processes
A-5 Collaboration
A-6 Integrate art forms to create a work of art
B-2 Recognize world cultures and their arts

Activity #7 Fish Poetry

Language Arts:
A-1 Effective writing
A-3 Demonstrate speaking skills
A-4 Writing and speaking with purpose
E-1 Use information to understand others
E-2 Evaluate content from different perspectives

Unit 2: Fish Species

Activity #1 Name that Salmon

Language Arts:
A-3 Demonstrate speaking skills
A-6 Using visual communication
C-5 Project collaboration

Science:
A-12 Biological diversity
A-14 Living things and their environments

Activity #2 The Salmon Life Cycle

Language Arts:
A-3 Demonstrate speaking skills
A-6 Using visual communication
C-5 Project collaboration

Science:
A-12 Biological diversity
A-14 Living things and their environments
B-3 Understand that scientific inquiry involves multiple paths

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Activity #3 Salmon Habitat
Language Arts:
A-3 Demonstrate speaking skills
C-5 Project collaboration

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-5 Collaboration

Arts:
A-1 Participate in the arts
A-4 Demonstrate creativity

Activity #4 Salmon Survival
Science:
A-14 Living things and their environments
B-2 Tools of scientific investigation
C-5 Collaboration
D-4 Social benefits of science

Math:
A-1 Numeration
A-3 Arithmetic and computation
A-6 Statistics and data analysis
B-2 Investigations
B-3 Using math in real-life situations

Activity #5 Herring and the Food Web
Language Arts:
A-3 Demonstrate speaking skills
B-2 Investigations in written materials

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
D-4 Social benefits of science

Activity #6 Hide a Halibut
Language Arts: A-3 Demonstrate speaking skills

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge

Arts:
A-1 Participate in the arts
A-3 Materials, tools, techniques, and processes
A-4 Demonstrate creativity

Activity #7 Amazing Alaska Blackfish
Language Arts:
A-1 Effective writing
A-2 Writing conventions
A-3 Demonstrate speaking skills
B-1 Meaning from written, oral, and visual information

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
B-1 Scientific processes
B-2 Tools of scientific investigation
C-5 Collaboration

Math: A-2 Measurement

Activity #8 Freshwater Fish Card Game
Language Arts:
A-3 Demonstrate speaking skills

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
B-3 Understand that scientific inquiry involves multiple paths
C-5 Collaboration

Activity #9 Design a Fish
Language Arts:
A-4 Writing and speaking with purpose

Science:
A-12 Biological diversity
A-14 Living things and their environments

Arts: A-1 Participate in the arts
A-3 Materials, tools, techniques, and processes
A-4 Demonstrate creativity

Unit 3: Fish in the Field
Activity #1 Mapping Your Watershed
Science:
A-4 Observable natural events
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
B-3 Understand that scientific inquiry involves multiple paths
C-2 Knowledge through experimentation

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Geography:
A-1 Using maps
A-3 Maps as changing documents
A-4 Using graphic tools
B-1 Geographic characteristics of place

Math:
C-1 Using pictures, graphs, and charts

Activity #2 Stream Field Trip
Language Arts:
A-1 Effective writing
A-3 Demonstrate speaking skills

Science:
A-4 Observable natural events
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
B-3 Understand that scientific inquiry involves multiple paths
C-5 Collaboration
C-6 Scientific discovery

Geography:
A-1 Using maps
A-2 Making maps
A-5 Interpreting geographical patterns

Mathematics:
A-2 Measurement

Skills for a Healthy Life:
B-1 Risk and consequences

Activity #3 Lake Field Trip
Language Arts:
A-4 Writing and speaking with purpose

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-5 Collaboration

Math:
C-1 Using pictures, graphs, and charts

Activity #4 Data Analysis & Report Writing
Language Arts:
A-4 Writing and speaking with purpose
B-1 Meaning from written, oral, and visual information
C-3 Group decision making
C-5 Project collaboration
D-1-D Analyzing information

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-5 Collaboration

Math:
C-1 Using pictures, graphs, and charts

Unit 4: Fishing Then & Now
Activity #1 Fishing Myths & Legends
Language Arts:
B-1 Meaning from written, oral, and visual information
D-1-B Formulating questions
E-1 Use a variety of information to understand others
E-4 Recognize different culture’s communication styles

Science:
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences

Arts:
B-1 Recognize Alaska Native culture & arts
B-3 Recognize tradition in the arts
B-4 Recognize relationships within the arts

Activity #2 Traditional Fishing Methods
Language Arts:
A-3 Demonstrate speaking skills

Science:
A-15 Using local knowledge
C-2 Knowledge through experimentation
C-3 Cultural influences

Activity #3 Constructing a Fish Wheel
Language Arts:
A-3 Demonstrate speaking skills
Science:
A-15 Using local knowledge
C-2 Knowledge through experimentation
C-3 Cultural influences
C-5 Collaboration

Geography: A-1 Using maps

Activity #4 Jigging Derby

Language Arts:
A-3 Demonstrate speaking skills

Science:
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences
C-5 Collaboration

Activity #5 Gillnetting

Language Arts:
A-3 Demonstrate speaking skills

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences
C-5 Collaboration
D-2 Effects of scientific innovations
D-4 Social benefits of science

Activity #6 Purse Seining

Language Arts:
A-3 Demonstrate speaking skills

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences
C-5 Collaboration
D-2 Effects of scientific innovations
D-4 Social benefits of science

Activity #7 Trolling

Language Arts:
A-3 Demonstrate speaking skills
A-6 Using visual communication

Science:
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences
C-5 Collaboration
D-2 Effects of scientific innovations

Geography: A-1 Using maps

Activity #8 Longlining

Language Arts:
A-4 Writing and speaking with purpose

Science:
A-12 Biological diversity
A-14 Living things and their environments
C-3 Cultural influences

Arts:
A-1 Participate in the arts
A-4 Demonstrate creativity

Activity #9 Shipping & Crabbing on the High Seas

Language Arts:
A-4 Writing and speaking with purpose

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences
D-4 Social benefits of science
D-5 Evaluating scientific solutions

Arts:
A-1 Participate in the arts

Activity #10 Who Gets the fish?

Language Arts:
A-4 Writing and speaking with purpose
D-1-A Personal experience and prior knowledge
D-2 Evaluating information
D-4 Explain and defend a position
Activity #11 Harbor Field Trip
Language Arts:
A-4 Writing and speaking with purpose
B-1 Meaning from written, oral, and visual information
D-1 Developing a logical position
D-4 Explain and defend a position

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
B-1 Scientific processes
C-3 Cultural influences
C-5 Collaboration

Government:
E-2 Citizens’ responsibilities

Activity #12 Boat and Nautical Language
Language Arts:
A-1 Effective writing
A-3 Demonstrate speaking skills
B-1 Meaning from written, oral, and visual information

Science:
A-15 Using local knowledge

Math:
A-1 Numeration
A-2 Measurement
B-3 Using math in real-life situations
C-1 Using pictures, graphs, and charts

Geography:
A-1 Using maps
A-3 Maps as changing documents
A-4 Using graphic tools
A-6 Geographical problems and solutions

Activity #13 Navigation
Language Arts:
A-1 Effective writing

Science:
A-15 Using local knowledge

Activity #3 Tides
Science:
A-14 Living things and their environments
C-3 Cultural influences

Activity #4 Knots
Science:
A-14 Living things and their environments
C-3 Cultural influences

Activity #5 Boating Safety
Skills for a Healthy Life:
A-3 Injury prevention

Activity #6 Sportfishing Trip
Language Arts:
A-4 Writing and speaking with purpose

Science:
A-14 Living things and their environments
A-15 Using local knowledge
C-5 Collaboration

Arts:
A-1 Participate in the arts
A-3 Materials, tools, techniques, and processes
A-4 Demonstrate creativity

Activity #7 Art, Music, Literature, & Sea
Language Arts:
A-1 Effective writing

Science:
C-3 Cultural influences

Arts:
A-1 Participate in the arts
A-3 Materials, tools, techniques, and processes
A-4 Demonstrate creativity
Unit 6: Fish as Food

Activity #1 Fish Quality
Science:
A-12 Biological diversity
A-15 Using local knowledge
B-2 Tools of scientific investigation
C-3 Cultural influences
C-5 Collaboration

Activity #2 Fish Processing
Language Arts: C-2 Project organization
Science:
A-15 Using local knowledge
C-2 Knowledge through experimentation
C-3 Cultural influences

Skills for a Healthy Life:
A-3 Injury prevention

Activity #3 Grocery Store Survey
Language Arts: A-1 Effective writing
C-2 Project organization
Science:
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences
C-5 Collaboration

Math:
A-3 Arithmetic and computation

Activity #4 Nutrition & Fish Feast
Skills for a Healthy Life:
A-1 Personal well-being
A-2 Healthy behaviors

Activity #5 The Fish Business
Language Arts:
A-4 Writing and speaking with purpose
A-6 Using visual communication
D-1-A Personal experience and prior knowledge

Science:
A-14 Living things and their environments
C-3 Cultural influences
C-5 Collaboration

Math:
A-3 Arithmetic and computation
B-1 Computation as problem solving
B-2 Investigations
B-3 Using math in real-life situations

Unit 7: Fisheries & the Future

Activity #1 Fish for the World
Math: C-1 Using pictures, graphs, and charts

Government:
D-3 International and national politics relate to Alaska
D-5 Analyze causes and solutions to world problems
E-7 Problem solving and conflict resolution

Activity #2 Aquaculture
Science:
A-14 Living things and their environments
D-4 Social benefits of science

Activity #3 New Fisheries
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences

Activity #4 Mighty Salmon
Cannery Game
Science: C-3 Cultural influences

Government:
C-4 Understand current and historical importance of Alaska Native communities
C-7 Understand the obligations of Alaskans to the land
E-7 Problem solving and conflict resolution

Activity #5 Cartooning Local Issues
Language Arts:
D-1 Developing a logical position
D-1-A Personal experience and prior knowledge
D-4 Explain and defend a position

Arts:
A-1 Participate in the arts
A-4 Demonstrate creativity