



Dear Teacher:

Below is an outline for the all the teaching components that make up the Arctic Alive program. You can print this page out and any associated pages to begin to creating a notebook for future use.

Teacher's Guide

Audio conferences

- Instructions and Tips
- Time Table
- Student Questions
 - Day 1
 - Day 2
 - Day 3
 - Day 4
 - Day 5
- Conference Summaries
 - Day 1
 - Day 2
 - Day 3
 - Day 4
 - Day 5

Discussion Room

Expedition Team

Expedition Diary

- April 03, 2002
- April 04, 2002
- April 05, 2002
- April 08, 2002
- April 09, 2002

Web Cam

Photos

- April 03, 2002
- April 04, 2002
- April 05, 2002
- April 08, 2002
- April 09, 2002

Map

Focus Questions / Objectives / Key Concepts

Rationale Statement

Assessment

- Standards
- Standards–Lessons Correlation
- Skills and Discipline–Lessons Correlation
- Assessment Strategies
- Rubrics

Background Material

Lesson Plans

Pre-Field Work Activities

- Introduction to the Arctic
- Investigation 1.2 – Earth System Science
- Investigation 1.3 – Climate & Climate Change
- Investigation 1.4 – A Case Study: Sea Ice Research

Field Work Activities

- Investigation 2.1 - Albedo Transect Research
- Investigation 2.2 - Ice Core Research
- Investigation 2.3 - Researching Local Knowledge (Cultural & Biological)
- Investigation 2.4 - Data Analysis - The Cold Lab
- Investigation 2.5 - Local & Global Impacts & Interventions

Post-Field Work Activities

- Investigation 3.1 - Geoscience Careers
- Investigation 3.2 - Debate
- Extension Activities

Student Journal Pages

- Worksheet 1 – Introduction to the Arctic
- Worksheet 1.2 – Earth System Science
- Worksheet 1.3 – Climate and Climate Change
- Worksheet 1.4 – Sea Ice Research
- Worksheet 2.1 – Albedo Transect
- Worksheet 2.2 – Ice Core Research
- Worksheet 2.3 – Local Knowledge
- Worksheet 2.4 – Data Analysis
- Worksheet 3.1 – Geoscience Careers
- Worksheet 3.2 – Debate

List of Required Materials

Resources

Interdisciplinary Study Suggestions

Project Evaluation