

Discover Aoraki/Mackenzie

with LEOTC

Learning experiences outside the classroom

secondary programme

The **Aoraki/Mount Cook** and **Mackenzie** areas offer unique learning environments. To get the most out of their visit and learning opportunities, the majority of schools stay for three to five days.

We have many learning programmes designed to enhance school education visits.

Help! How do I organise my LEOTC visit?

The LEOTC Educator is your one point of contact.

The LEOTC Educator will provide teachers with information and options about education programmes and activities provided by the local operators, and accommodation choices.

After consultation, the LEOTC Educator will provide you with a suggested plan designed to fit your learning requirements.

How can I begin to plan my school field trip?

Follow these two easy steps:

1. See overleaf for curriculum themes and select from the wide variety of programmes listed.
2. Email our LEOTC Educator at aleotc@doc.govt.nz indicating the curriculum themes you are interested in covering—or phone 03 435 1186

You will then;

be contacted to discuss your proposed visit.

receive follow-up confirmation, and a resource booklet (currently being developed).

What is in the resource booklet?

The resource booklet is designed to provide teachers with the base information about the learning opportunities in the Aoraki/Mount Cook and Mackenzie areas.

The booklet is coming soon! It will contain maps, equipment lists, roles and responsibilities lists, risk-management plans, curriculum plans, possible pre- and post-camp follow-up activities and resource lists.

Who is running the programme?

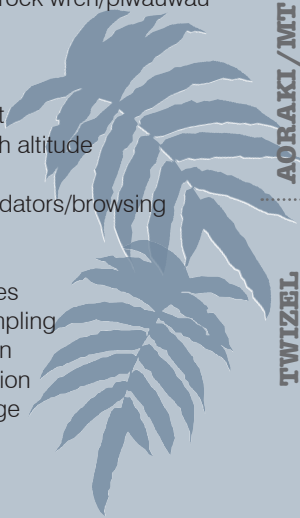
The programme is run by LEOTC Department of Conservation staff at Aoraki/Mount Cook in conjunction with the Hermitage Hotel and managed by the EDGE group. (Aoraki/Mount Cook Education Development Group Enterprise)



Discovering plants & animals

Curriculum themes

Animal adaptation—e.g. kea, rock wren/pīwauwau
 Habitat tolerance
 Endangered/threatened birds
 Investigating population
 Exploration in the beech forest
 Alpine vegetation zonation with altitude
 Classification systems
 Introduced animal pests—predators/browsing
 Introduced plant pests
 Stratification in beech forest
 Succession on glacial moraines
 Quadrat and line-transect sampling
 Cycles—water/carbon/nitrogen
 Identification of alpine vegetation
 Biodiversity and climate change



AORAKI / MT COOK

TWIZEL

Guided visits

Ranger talks

Human impacts
 Environmental threats

Investigations

Governors Bush investigation
 Hooker Valley succession investigation
 Native plant identification
 Kea, falcon/kārearea investigation

Ranger talks

Human impacts
 What DOC is doing
 Biodiversity

Investigations

Kaki/black stilt visitor hide
 Project River Recovery—braided-river study
 Ruataniwha wetlands
 Environmental threats
 Wilding pines investigation

Discovering natural features

Curriculum themes

Glaciation
 Plate tectonics
 Moraine development
 Erosion—freeze/thaw cycle
 Braided rivers
 Water—water cycle—rivers/tarns/creeks
 Impacts of weather
 Climate
 Meteorology
 Night sky—Starlight Reserve
 The night sky—identification
 Soil development/primary succession



AORAKI / MT COOK

TWIZEL

Guided visits

Exploring

Ranger talks in the DOC visitor centre
 Sir Edmund Hillary Alpine Centre—planetarium

Investigations

Hooker Valley glaciation investigation
 Glacier Explorers—boat trip
 Water-study comparisons

Investigations

Braided river formation
 Clay Cliffs formation
 Mt John Observatory—Lake Tekapo

Discovering people

Curriculum themes

Human impacts on the park
 Investigating sustainable futures for Aoraki/Mt Cook National Park
 Management and planning in a national park
 Sustainable water supplies in a tourism village
 Heroes of this area
 World Heritage status
 Merino high-country station
 Merino—a high-end product
 Concessions—commercial activities in the park
 Art and artists—DOC visitor centre/Hermitage Hotel
 Art and artists trail—Mackenzie
 Visitor/user groups—tourism statistics
 Development of power project
 Risk management—tourists/schools/climbers
 Living at altitude
 Expressing and recording images—art/photography
 Alps to Ocean cycleway



AORAKI / MT COOK

TWIZEL

Safety in an alpine environment

Discovering careers

Tourism—Hermitage Hotel
 DOC—rangers/Search & Rescue
 Tourism in the national park and Mackenzie area

Guided visits

DOC visitor centre—displays, huts, climbing memorial room, equipment, ranger talks
 Mountaineer talk—qualities and skills needed
 Sir Edmund Hillary Alpine Centre/3D movie
 Tour of the Hermitage Hotel.
 Search and Rescue process
 Safety in the mountains

Investigations

Birch Hill—early settlement
 Water crossings/bridge design
 Expressing and recording images—art/photography

Ranger talks and field trips

Power projects—Waitaki Scheme Visitor Centre
 Human impacts in the Mackenzie
 Climbing on the rock wall—Twizel

Discovering climbing

Technology of equipment—then and now
 Social Sciences—climbers who made an impact