

This resource kit has been designed to show you, the Science Teacher, the resources available in or from Waitakere City Council.

## **ACHIEVEMENT OBJECTIVES**

Levels 4,5 & NCEA

## **EXPERIMENTS**

## **RESEARCH PROJECTS**

# **COMMUNITY STUDY**

## **NCEA**

Relevant assessments identified

## **PAMPHLETS**

Waitakere City Council literature

## **RESOURCES AVAILABLE**

Waitakere City Council literature

## **RESOURCES**

The Waitakere City Council has made available all the public brochures from its various libraries and subsidiaries. These have been read, checked, visited, analysed, and categorised, and additional information sought about statements made or facts alluded to in them. Samples of the relevant documents are included in these Resource Kits. The knowledge of many staff in the council has contributed to the kits as well. WEB SITE: <http://www.waitakere.govt.nz/>

# COMMUNITY STUDY

## ACHIEVEMENT OBJECTIVES:

- Level 4: Investigate and classify living things on the basis of easily observable features.  
Use simple food chains.  
Investigate the effects of human intervention of food chain relationships.  
Investigate examples of technology to clarify scientific ideas.
- Level 5: Investigate and describe structural, physiological and behavioural adaptations which ensure the survival of plants in their environment.  
Investigate and understand trophic and nutrient relationships between producers, consumers and decomposers.
- NCEA: Research with direction, how biology and technology are related.  
Investigate the ecological patterns of two different biological communities.  
Describe the effect of an introduced plant or animal on a native species, and a method of management of the introduced species.

## PRACTICAL WORK:

- Food chains in native bush/parkland/estuarine flat.
- Case study of local park/ bush/estuarine flat.
- Analysis of a wetland community.
- Analysis of a stream community.
- Comparison of replanted and neglected stream banks.
- Analysis of weed covered area.
- Analysis of stream bank with a view to the school being involved in replanting it.
- Measuring the health of several streams.
- Investigating chemical contaminants in waterways and finding their source.
- Reversing the effects of habitat loss caused by erosion/weed destruction.
- Weed identification and non-chemical destruction.
- Littering in waterways.

## RESEARCH PROJECTS:

- Effect of exotic plants on native bush areas.
  - Weed control methods and their effectiveness.
  - Endemic plants of the Waitakere area.
  - Causes of water pollution.
  - Council efforts to encourage weed destruction.
  - Encouraging the planting of natives.
  - Significant flora and fauna of the Waitakere area.
  - Possum damage and control.
  - The Green Network in Waitakere city.
-

# PAMPHLETS INCLUDED IN THIS PACKAGE

## COMMUNITY STUDY

Waitakere City Walkways	map and brief comment on city walkways – might be used to compare wasteland with eco planted area also has time for each walk
Living on Waitakere's .....	several brochures (on brown recycled paper) on what to plant in various regions of the city includes <i>Living by the Harbour, in the Bush, on the Foothills</i>
Green network booklets	many one sheet pamphlets (on brown recycled paper) dealing with weed eradication, help from the council for replanting, and ecosourcing of plants
Walking Out West	series of six small booklets detailing the location and extent of the walkway
Environmental Weeds	series of three brochures available from Biosecurity officers at ph.8368000.x8145. Introduction pamphlet included
Urban Stormwater Newsletter	several issues talking about replanting and pollution problems
Environmental newsletter	illustrates problems about ecology of the city and invites solutions
Revegetation timeline	Green network timeline and flowchart for replanting
Forest and Bird	planting native trees for Pigeon, Tui and Silvereye for food