

Field Trip Kit

Items could include:

- Beating sheets (for laying under bushes to catch animals shaken off)
- Bamboo stakes (graduated)
- Bottles for water samples
- Bowls
- Buckets
- Clipboard and plastic bags or plastic pockets
- Compass
- Forceps
- Funnel
- Girl Guide biscuit box (useful containers for kits)
- Gloves
- Hoops or quadrats (for population counts)
- Identification material, such as keys, posters, or pictures
- Knotted cord (knotted every 25 or 30 cm)
- Magnifying glasses
- Measuring tape
- Net (pantyhose)
- Paintbrushes
- Paint trays or palettes
- Paper towels or cotton wool
- Patty pans
- Pens and paper
- Pooter (apparatus for catching small animals)
- Pottles with lids
- Random number table
- Ruler
- Sieves
- Snips or scissors
- Stopwatch
- Thermometer
- Torch
- Towel
- Trowel or scoop
- Well trays, ice cube trays, or paint trays (for holding/sorting individual specimens)

Appendix One: Suggested Minimum Safety Equipment

Relevant items from the following list must be readily accessible in a classroom during science activities. Most of them could be stored in a large plastic box so that they can be easily taken to the classroom when required.

- Fire extinguisher or bucket of sand (for smothering small fires)
- Fire blanket
- First-aid kit
- A source of water (e.g., bucket)
- Rubber-hose shower attachment (to use as a safety shower)
- Plastic jug (to use for washing eyes with clean water)
- Safety glasses or goggles
- Lab coats (old shirts)
- A container for broken glass and other sharp materials (see page 30 of *Safety and Science: A Guidance Manual for New Zealand Schools*).

It is advisable for children to wear some form of protective clothing, such as an old shirt, when carrying out chemical reactions or using biological materials.

Safety glasses or goggles should be worn if the particular activity involves a risk to eyes. Safety glasses require regular sterilisation, preferably by ultraviolet light (local hospitals, universities, or research institutes may be of assistance).

Appendix Two: Suppliers and Servicers of Science Materials

Biolab Scientific Ltd

29 Shakespeare Road
Christchurch
Ph: (03) 366 3663 Fax: (03) 366 3647

Blaxall & Stevens

163 St Asaph St
Christchurch
Call free: 0508 898 898 Fax: (03) 365 2072

Crown Scientific Ltd

PO Box 101 119
North Shore Mail Centre
Auckland
Ph: (09) 415 4119 Fax: (09) 415 4120

Dominion Chemicals

24 Andromeda Cres
East Tamaki
Auckland
Call free: 0800 366 243 Fax: (09) 274 6164

Glassblowing Services Ltd

7 Morgan Street
Newmarket
Auckland
Ph: (09) 379 8249 Fax: (09) 379 5577

Gough Technology

1 Jackson St
Petone
Ph: (04) 568 6675 Fax: (04) 568 4376

John Morris Scientific Ltd

2/74–80 Wellesley St
City
Auckland
Ph: (09) 366 3999 Fax: (09) 366 3060

Biolab Scientific Ltd

410 Hutt Road
Lower Hutt
Ph: (04) 586 1200 Fax: (04) 569 7240

Carl Zeiss (NZ) Ltd

2/7 Ward St
Lower Hutt
Ph: (04) 566 7601 Fax: (04) 566 7501

Delta Scientific Supplies

PO Box 56420
Auckland
Ph: (09) 629 3234 Fax: (09) 620 5080

Education Support Consultants

1 Grove Road
Wellington
Ph/fax: (04) 475 8827

Gough Technology

245 St Asaph St
Christchurch
Ph: (03) 379 8740 Fax: (03) 379 6776

GPSE Ltd (specialists in data loggers and weather stations)

PO Box 13047
Christchurch
Ph: (03) 379 3642 Fax: (03) 366 7799

John Morris Scientific Ltd

352 Manchester St
Christchurch
Ph: (03) 365 3825 Fax: (03) 366 6975

Jonnell Agencies Ltd

PO Box 29080
Auckland
Ph/fax: (09) 638 6785

Medic Corporation Ltd

14 Vulcan Place
Christchurch
Ph: (03) 338 1936 Fax: (03) 338 4741

Nature Discoveries

200 Antigua St
Christchurch
Ph: (03) 365 7100 Fax: (03) 377 2103

Nature Discoveries

The Meridan Mall
George St
Dunedin
Ph: (03) 477 1515 Fax: (03) 477 1535

Olympus NZ Ltd

826 Columbo St
Christchurch
Ph: (03) 366 5986 Fax: (03) 379 2619

Scientific Supplies

PO Box 14454
Panmure
Auckland
Ph: (09) 274 7579 Fax: (09) 274 0267

TD Technologies Ltd

124 Nelson St
Auckland Central
Ph: (09) 303 3522 Fax: (09) 303 3188

Life Sciences NZ Ltd

2 Fred Thomas Drive
Takapuna
Auckland
Ph: (09) 486 0477 Fax: (09) 480 7757

Nature Discoveries

The Palms
Shirley
Christchurch
Ph: (03) 385 1565 Fax: (03) 385 8220

Nature Discoveries

North City Plaza
4 Titahi Bay Road
Porirua
Ph: (04) 237 0237 Fax: (04) 237 0236

NIWA Instrument Systems

21 Kainga Road
Christchurch 9
Ph: (03) 323 8199 Fax: (03) 323 7596

**Ross Mason Scientific & Laboratory
Instrument Servicing**

PO Box 48149
Silverstream
Upper Hutt
Ph: (04) 528 6889 Fax: (04) 528 6885

Scott Technical Instruments

14 Bandon Street
Hamilton
Ph: (07) 847 0646 Fax: (07) 847 0647

The Met Shop

Swan Lane (off Cuba St, Wellington)
PO Box 9254
Wellington
Ph: (04) 384 7683 Fax: (04) 384 7689

Appendix Three: A Sample Request Letter to Parents

Dear Parents/Caregivers

Each year we use a number of household items in our science programme. Please look at home to see if you could spare any of the items listed below.

- Aluminium foil and aluminium foil containers
- Balls
- Bubble-makers (loops of any sort)
- Cardboard tubes
- Coloured cellophane
- Corks
- Cotton
- Cotton reels
- Empty plastic soft drink (PET) bottles
- Fabric samples
- Feathers
- Glass jars with screw-top lids
- Household appliances that no longer work, such as toasters, hairdryers, electric kettles
- Ice cream containers
- Lenses (old spectacles)
- Newspapers, magazines
- Old cutlery
- Old perfume bottles
- Old toys
- Pipe (plastic or metal)
- Plastic bags and containers
- Plastic jars with screw-top lids
- Rags
- Shells
- Shoeboxes, wine cask boxes
- Wool
- Yoghurt pottles

Thank you for your help. We hope you enjoy discussing your child's work in science with him/her.

Yours sincerely

(name)

Teacher in Charge of Science

It may be helpful to quantify the items in the list above to ensure that unwanted quantities of a particular item are not received.

Note: Cutlery used in science activities must be clearly labelled at school and kept separate from cutlery used for eating.

Appendix Four: Recommended Collectable Items

- Bones
- Feathers
- Birds' nests (preferably kept in zip-lock plastic bags. See page 32 of *Safety and Science: A Guidance Manual for New Zealand Schools* for precautions when handling bones, feathers, and birds' nests.)
- Shells
- Cones
- Stones, rocks, and minerals
- Leaf skeletons
- Sand
- Dried insects
- Fishing floats
- Pressed leaves and flowers
- Seeds
- Old appliances or toys
- Cross-sections of tree trunks.

Large, 4-litre, margarine or mayonnaise plastic containers are useful for storing collectables. They are often available from restaurants.

Appendix Five: Suggested Tools

- Cordless drill
- Craft knives
- Glue gun
- Hacksaw
- Hammer
- Pliers
- Screwdriver
- Slag hammer – for breaking soft rocks (for safety reasons, carpentry hammers must not be used for breaking rocks)
- Wire-cutters
- Wire strippers.

References

Ministry of Education. *Safety and Science: A Guidance Manual for New Zealand Schools*. Wellington: Learning Media, 1997.

Ministry of Education. *Making Better Sense of the Material World*. Wellington: Learning Media, 1998