

Permaculture your School and Transform your Town



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Values, Vision, Mission



School Walkways as Arboretum



'Elements as Signifiers' Waharoa at Victory School Garden

Nelson, NZ



Culture as a key component



Veges grown by children for the hangi on Matariki celebration





Schools as Seed Banks Children as Kaitiaki of Seeds



Children as Kaitiaki of Fruit Trees



Fruit Trees in Schools & Neighbourhoods - 'Open Orchards'



Educational Orchard - Rhode St School, Hamilton



Oturu School Olive Products



Rongoa Trails in school grounds



Native and Medicinal Plants along School Boundaries



Strategic Positioning + Signage for Community Engagement





Victory Community Garden



Virtual Garden Tour after Design



Community Garden within a School



Gardens within School Grounds



Mandala Garden - Victory School



SEED Implemented Garden Design



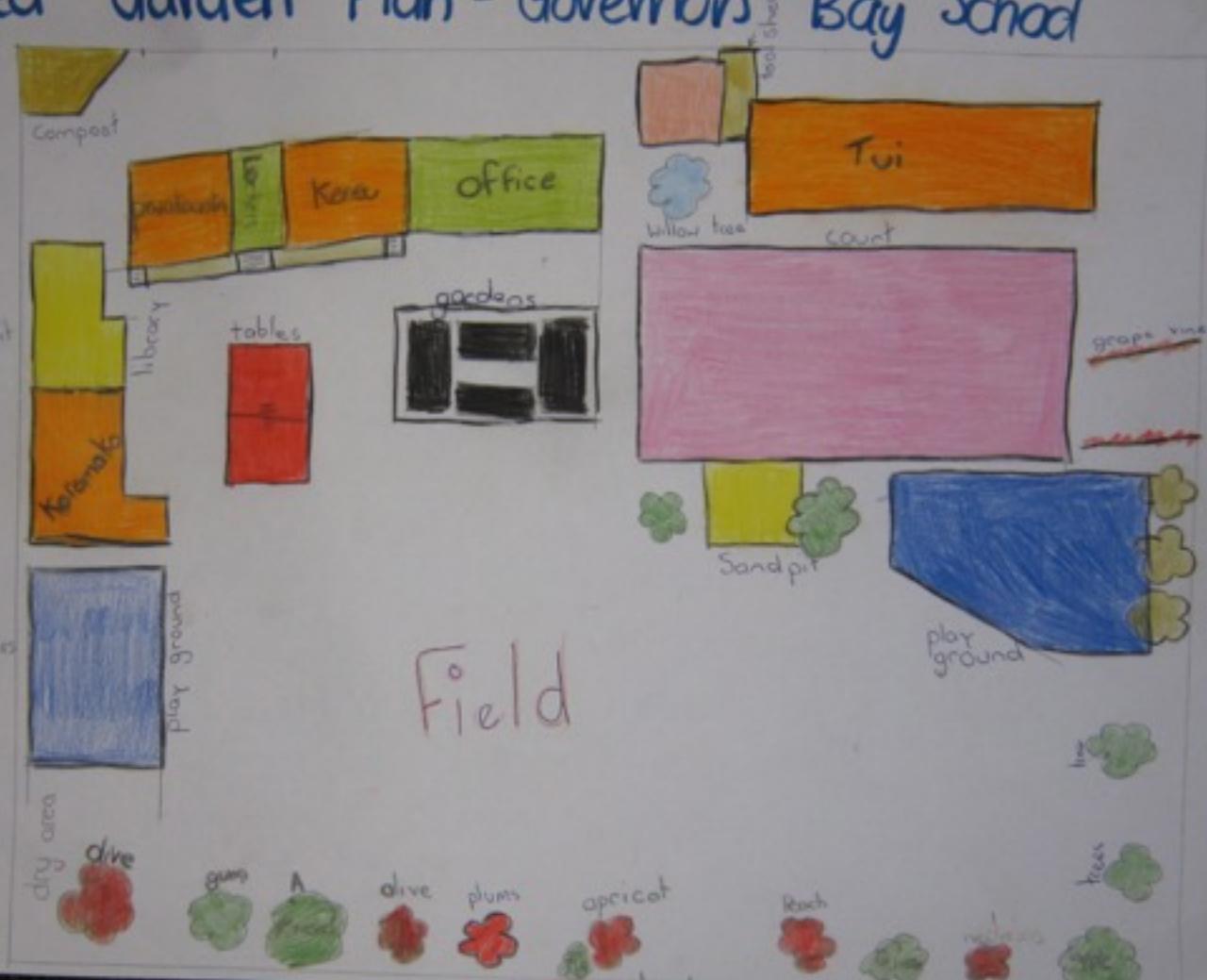
Permaculture Design Process: child-oriented & age-relevant



Proposed Garden Plan - Governors Bay School

Key

- [green square] trees (existing)
- [orange square] Classroom
- [yellow square] Learning Sandpit
- [blue square] Playground
- [yellow square] non-existing
- [red square] path
- [orange square] Tool shed
- [green square] Office, Lockers
- [black square] Garden
- [light blue square] Willow tree
- [red square] Tables and chairs
- [pink square] Court
- [grey square] Labels
- [red square] introduced tree



Sector & Site Analysis - Observation & Sensory Awareness



Simple Soil Testing



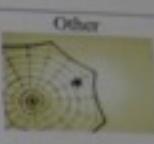
TRANSECT PROFILE (draw as you go)	A	B	C	D	E	F
SAMPLING SPOT						
CURRENT LAND USE	lawn	lawn	lawn	lawn	lawn	lawn
GROUND COVER Species Present (describe)	grass small weeds dandelions					
DIVERSITY RATING	2	3	4	5	6	7
Signs of Animal Life (describe)	small ant colony					
SOIL COLOUR	dark brown					



Recording Observations

Can You Help Me!

For my maths research I am counting how many bugs land on the plants. If you see any of these bugs write down the date and time you saw them.
Please add any other bugs to the OTHER column.

Bee	Aphid	Shield Beetle	Caterpillar/ Butterfly	Ladybird	Other
					

Thank you for your help. Lachie Smith (Piwakawaka)



Environmental Education & Permaculture - Structured Lessons



Selecting and placing elements 1



Selecting and Placing Elements 2





Inspirational Garden Bed Images - square & rectangular





Inspirational Garden Bed Images - round



Students Detailed Design



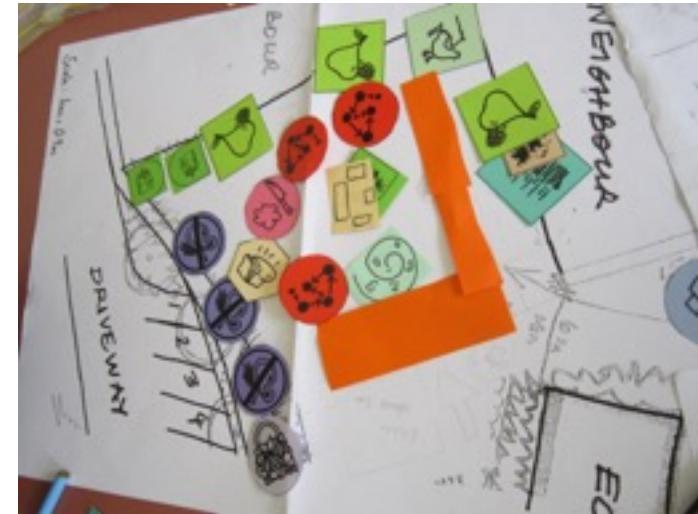
Positioning Elements on Site



Drawing up classes completed work



Parent Group Final Design Decision



Preparing and positioning stakes



Laying out amalgamated design



Laying out gardens to scale



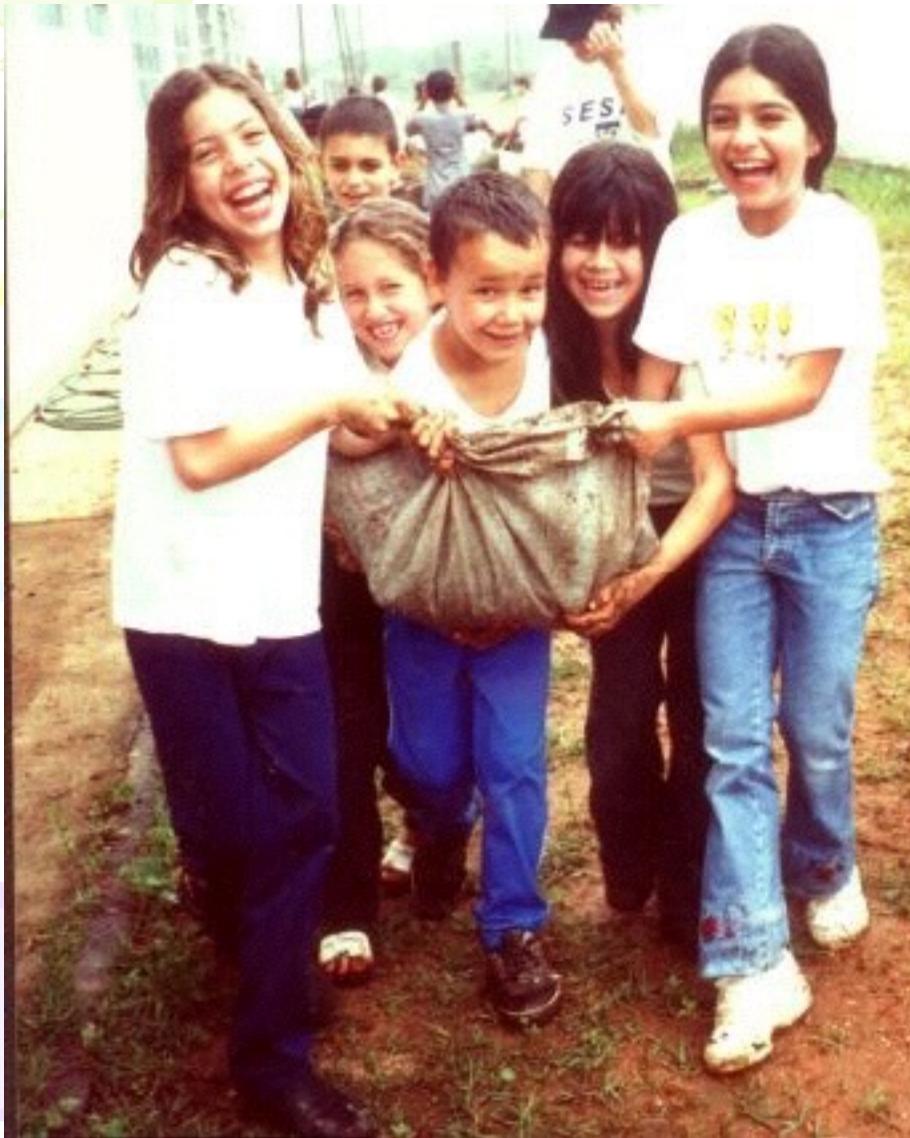
Preparing the no-dig gardens



Co-operative Gardening Action - minimal resources



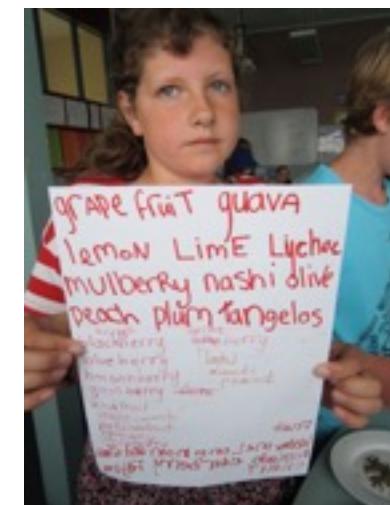
- minimal resources



Children are natural foragers...



Choosing what to plant



GBS Winter Garden Plan



Beginning the planting



From our own seedlings ...

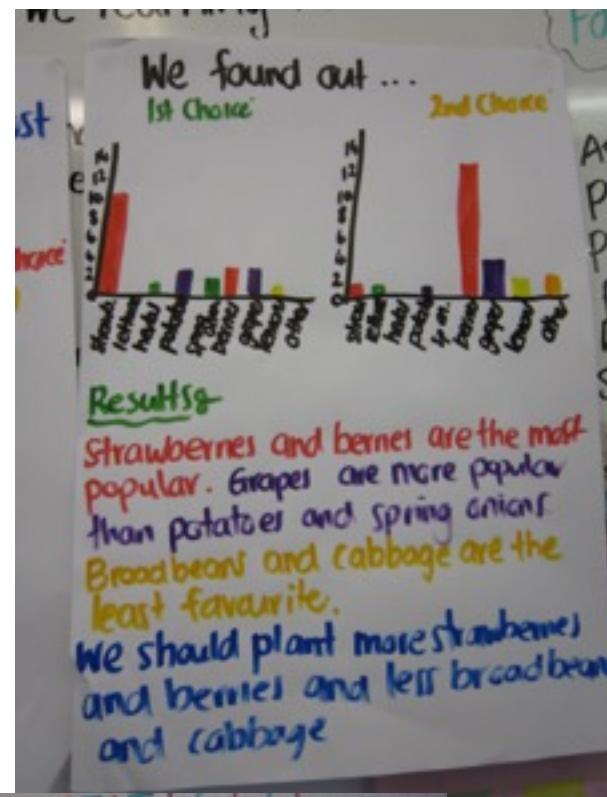


Gardens and Maths Statistics

Statistics		
Veges/Plants	1st Choice 23	Total 23
Strawberries	10	1
lettuce	0	1
herbs	1	0
potatoes	3	0
cabbage	0	0
Spring onion	2	12
berries	3	4
grapes	3	2
lemons	1	0
broadbeans	0	2
other		

Answers

STATISTICS					
	M	T	W	T	F
garden 1	23m	X			49
garden 2	21m		X		34
garden 3	30m	X			30



Statistics!

How much sun are the gardens getting every week?

	M	T	W	T	F	Total
garden 1	0	0	0	0	0	0
garden 2	0	0	0	0	0	0
garden 3	0	0	0	0	0	0

17/9/12

Statistics! Q1 Will the strawberry plants be ready to pick and eat by the end of the summer? Q2 How much rain and sun are the gardens getting over the every week? Q3 Will the berries be ready by the end of the term? Q4 Which garden has been growing the most? Q5 Are the places that the plants are in good for them? Q6 Should we try new things to rid of the bugs?

Acknowledging gardeners equally to academic achievers



Assumption High School, Lesotho - high academic gardening grades



SEED's outdoor classrooms



Earthcare's Outdoor Classrooms



'Growing Schools' Video



