

# Innovative Horticulture at Katikati College

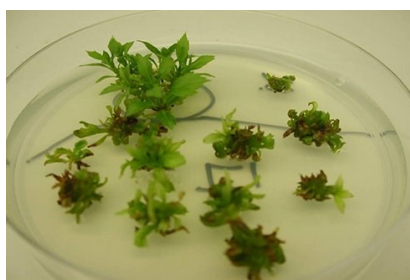
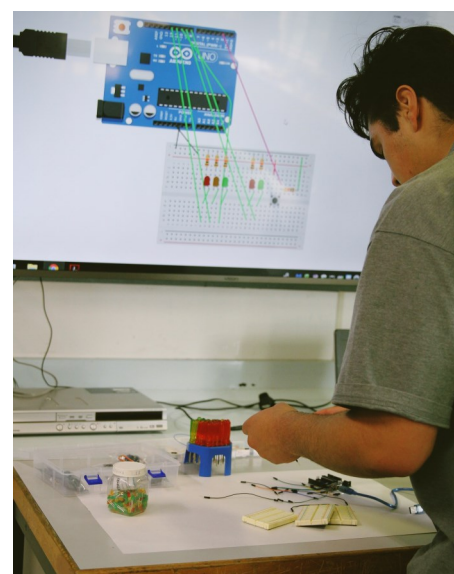
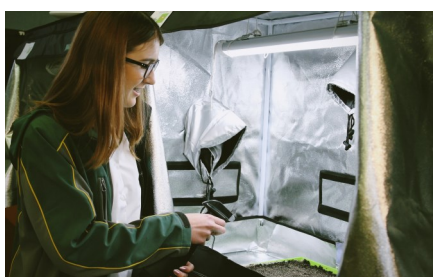
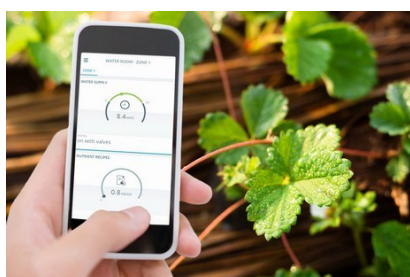


Horticulture at Katikati College has changed to offer a modular, flexible and future-focused programme of learning that can really take you places in the many career paths available in this amazingly diverse, growing industry, or in other industries where innovation is key.



*The programme has three main strands: **Innovation and Creativity**, **Business Management** and **Plant Science and Technology**.*

*Choose from topics in Marketing, Digital Technology, Science, Agribusiness and Environmental Sustainability as well as Plant Management, selecting those most relevant to you and your plans. You will be taught by multiple specialist teachers in the same time slot to allow you to move between areas of learning in your portfolio. Significant real-life learning will take place in orchards, nurseries and other local businesses, thanks to the enthusiastic response from the local horticulture industry.*



There are huge opportunities for young people in horticulture. There is a growing demand for skilled workers in the horticulture industry. There is also a shortage of graduates with university qualifications who are able to lead innovative practice in horticulture and by 2025 the industry is expected to need nearly 30,000 workers with post school qualifications. That is nearly double how many there are right now.



*Year 11 and 12 courses are available in 2019. Year 13 will be added in 2020.*

For more information see Mrs Hilary Johnson at [hjohnson@katikaticollege.school.nz](mailto:hjohnson@katikaticollege.school.nz)

**Or visit the Innovative Horticulture website:**

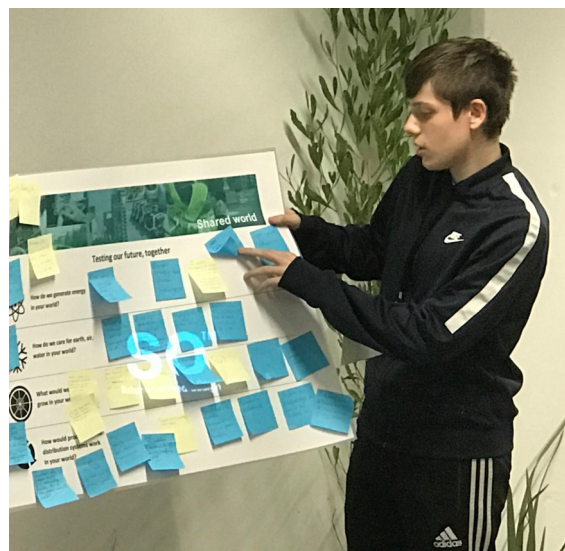
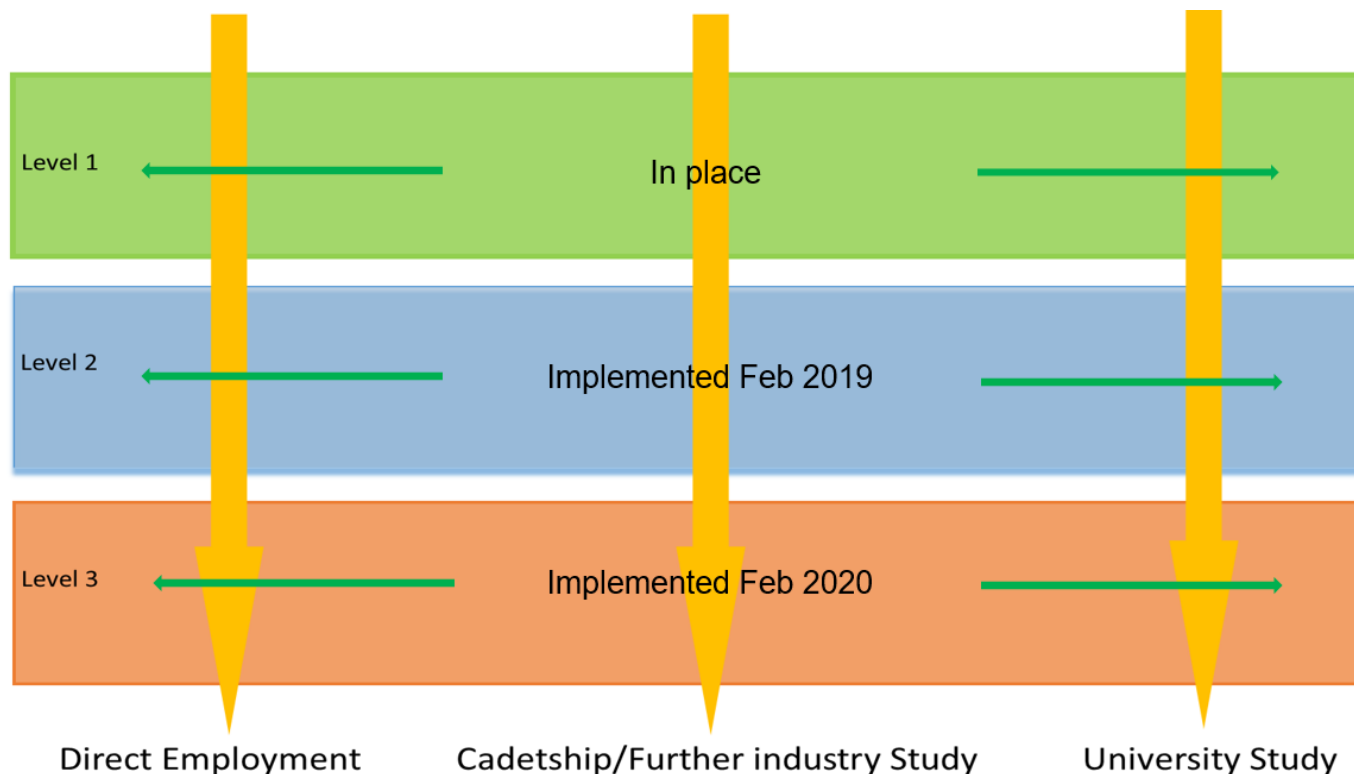
**<https://sites.google.com/katikaticollege.school.nz/innovativehorticultureatkatika/home>**

## Our Vision:

- To develop Innovative Horticulture at Katikati College to become a secondary school educational programme that will be the centre of horticulture excellence in the Bay of Plenty, New Zealand and beyond;
- To provide the facilities, expertise and qualifications to engage and inspire students to fill the current career gap, providing skilled workers and graduates with university qualifications.



*Choose a pathway that is relevant to you, your career, your ability and your interests, and to what industry and tertiary educators want.*



You design your own **Achievement Standard** course by selecting a combination of standards from those offered at your level (1 or 2) that meet your needs. When you do not have scheduled teaching time you will be working independently with supervision in the learning area that supports your current focus.

**Unit Standard** courses have a core component, but off-site options are also available.

## Innovative Horticulture Options 2019 - Level 1 Achievement Standards

Numbers in brackets indicate credit value of standard

Putting down roots											Branching out into innovation											Tutorials			Mini C																
Week	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10											
	AS90157(4) Practical horticulture skills AND AS90923 (4) Basic plant propagation techniques										AS90924 EXTERNAL (5E) Horticultural plant management practices and related physiology					AS90918 (4) Practical horticulture investigation					AS91880 (4) Develop a digital media outcome					AS90920 (4) Geographical distribution of agricultural and horticultural production in NZ					AS90924 EXTERNAL revision			AS90922 (5) Design a landscape plan that reflects user requirements							
											AS90922 (3) Design a landscape plan that reflects user requirements					AS90930 (4) Practical Chemistry investigation into soil pH									AS90926 (3) Report on a biological issue					AS90920 (4) Repeat											
											AS90160 (3) Impact on the environment of primary production management practices AND AS91009 (3) Geographic understanding of the sustainable use of an environment					AS90984 (5) Decisions a producer makes about production					AS90841 (3) Human resource processes in a business					AS90840 (3) Apply the marketing mix								AS90926 (3) ) Repeat							
											AS91878 (3) Develop a design for a digital outcome										AS91881 (6) Develop an electronics outcome (robotics and coding)																				

Key
Innovation and Creativity
Business Management
Plant Science and Technology

## Innovative Horticulture Options 2019 - Level 1 Unit Standards

Numbers in brackets indicate credit value of standard

Get growing										Seeds and weeds										Tutorials			Mini C									
US497 (3) Workplace health and safety US23780 (5) General garden maintenance AND US23782 (2) Containers, materials, plants, tools										US497 (3) Workplace health and safety OR US23782 (2) Containers, materials, plants, tools AND US1 (5) Prepare and sow outdoor seedbeds AND US23783 (5) Grow and maintain plants in containers from seed													US23782 (2) Repeat US497 (3) Repeat									

## Innovative Horticulture Options 2019 - Level 2 Achievement Standards

Numbers in brackets indicate credit value of standard

The business of cultivation											Smart sustainable solutions										Tutorials			Mini C											
Week	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10					
	AS91289 (4) Extended practical horticulture investigation AND AS91291 (4) Advanced plant propagation techniques used for commercial production										AS91292 (4) How management practices influence plant growth and development in NZ PLUS English AS91103 (3) = 71)					AS91290 EXTERNAL (4E) Techniques used to modify physical factors for NZ plant production					AS91481 (4) Understanding a topical accounting issue		AS91866 (4) Inquiry into the use of organisms to meet future needs			AS91290 EXTERNAL Revision		AS91292 (4) Repeat							
											AS91296 (4) Produce a landscape plan					AS90811 (4) How human activity in a biophysical environment has consequences for a sustainable future					AS90810 (6) Personal action, with reflection, that contributes to a sustainable future														
											AS91865 (4) Future proofing influences that affect business viability					AS91868 (4) Cash flow forecasting for a business					AS91867 (3) Primary industry business structure that best meets future needs		AS91298 (4) Report on the environmental impact of a locally produced primary product			ASS91867 (3) Repeat									
											AS90846 (3) Conduct market research																								

## Innovative Horticulture Options 2019 - Level 2 Unit Standards

Numbers in brackets indicate credit value of standard

Breaking new ground				Growing for success										Tutorials			Mini C														
US22191 (5) Factors which influence plant growth				US22174 (5) Soils and fertilisers				US22188 (5) Irrigation systems					US22185 (5) Quality control systems																		
US29508 (5) Sow seeds and monitor germination								US29504 (5) Prick out seedlings or rooted cuttings, transplant and pot on young plants																							
US23781 (5) Grow and pot up plants from stem cuttings																															
US27708 (5) Sexual and asexual propagation								US27707 (5) Budding, grafting, layering and tissue culture																							
Selected standards below by negotiation subject to off-site availability and supervision. <i>Timing and length of course will vary for participating students.</i>																															
US29513 (3) Train and prune young vines , US21212 (5) Harvest a fruit crop, US29496 (5) Field graft vines, US29492 (3) Care for a nursery crop, US29497 (8) Hand prune fruit trees, US29493 (5) Carry out basic canopy maintenance of trees or vines																															

Business Management
Plant Science and Technology



# Innovative Horticulture at Katikati College



We thank the following organisations and businesses for their generous support so far, whether it be financial or in kind. A number more organisations have expressed interest in playing a part.



**Priority 1** Driving Economic Growth



BOP Branch of New Zealand  
Tree Crops Association



**Ministry for Primary Industries**  
Manatū Ahu Matua



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