



*OUR VISION: Pacific health professionals of excellence, working together to meet the health needs of Pacific people in the region.*

# Otago College Health Science Academy

Te Ara Whakamana Conference 01/07/14

Fiona Toloa

Director/HOD 2010-2013



# Learning Objectives

- What is the purpose of the Otahuhu College Health Science Academy?
- What is it?
- How successful is it?
- Where are they now?
- What were the influencing factors for success?

# Otahuhu College

- Otahuhu College is a predominantly Pasifika decile 1 urban secondary school in the Auckland city district.
- Middlemore hospital
- There is a demand for more Pasifika health professionals in the community.

# Otahuhu College Health Science Academy

Purpose:

*“Deliver an excellent academic focussed programme to prepare Pacific students for tertiary study and entry into health science career pathways”*

Goals: 1. Increase the number of Pacific secondary school leavers entering Health Science degrees



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# What is the Health Science Academy?

- A selection of 25-28 mixed ability year 11 students who express an interest in a health science career pathway.
- Intensive Science curriculum
  - Year 11 taking double the science of usual Year 11 with limited options
  - Year 12 Biology, Chemistry and Physics + Maths and English + one option
  - Year 13 subjects depend on the student's career pathway
- The cohort stays together for all science classes
- Meet together each day for 20 minutes with their tutor
- Tutor teachers are the Health Science Academy Staff

# How successful is the Health Science Academy?

- There are many successes of the academy
  - Social – peers, staff, leaders of the school
  - Cultural – school, family, church and work
  - Academic – NCEA data in comparison to national norms
- Success here is ultimately measured by the fulfilment of the academy purpose
  - *“Deliver an excellent academic focussed programme to prepare Pacific students for tertiary study and entry into health science career pathways”*

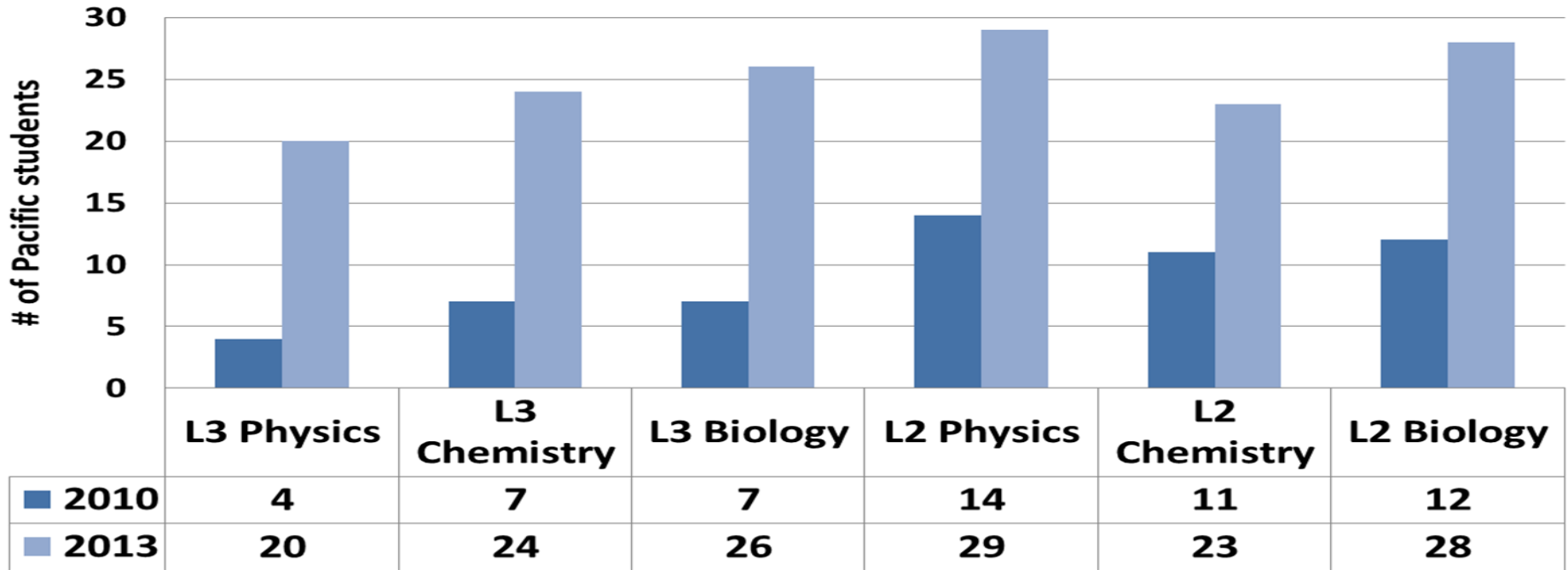
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## Increase in science participation between 2010-2013 Otahuhu College Academy



- Increase - L3 Physics 400%; L3 Chemistry 243%; L3 Biology 271%

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## 2011 NCEA Qualification Results for Year 11 cohort

Group	Endorsed with Merit	Endorsed with Excellence	Academy Pass rate	National Pacific Pass rate	National Pass rate
Year 11 NCEA L1	16%	4.7%	<b>100%</b>	59%	77.0%



# NCEA

- In 2011, the first cohort of year 11 Academy students outperformed the national Pacific pass rate in all 10 science standards

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# NCEA

- In 2012, the second cohort outperformed all groups (Otahuhu College, Decile 1 National Pacific, Decile 1 Pacific [co-ed], National Decile 1, and the National pass rate [all ethnicities and all deciles]) in 5 out of 10 Science Achievement Standards.

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# 2012 NCEA Qualification Results for Year 11 and Year 12 cohorts

Group	Endorsed with Merit	Endorsed with Excellence	Academy Pass rate	National Pacific Pass rate	National Pass rate
Year 11 NCEA L1	23.8%	4.7%	<b>90.4%</b>	59%	67.8%
Year 12 NCEA L2	19%	4.5%	<b>86%</b>	63.3%	71.4%

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# NCEA

- In 2013, the third cohort outperformed the national Pacific pass rate and the national rates. 33% received Merit endorsement compared to 23.8% for 2012 second cohort.
- In 2013, the second cohort outperformed National and Decile rates in half of the level 2 (8 out of 16) achievement standards, and decile 1 achievement rates in ALL 16 NCEA Level 2 achievement standards.

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# 2013 NCEA Qualification Results for Year 11, Year 12 and Year 13 cohorts

Group	Endorsed with Merit	Endorsed with Excellence	Academy Pass rate	National Pacific Pass rate	National Pass rate
Year 11 NCEA L1	33%	0%	<b>78%</b>	65%	71%
Year 12 NCEA L2	29%	0%	<b>85.7%</b>	63.3%	71.4%
Year 13 NCEA L3	0%	4.4%	<b>57%</b>	48%	58%

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# 2013 Year 13 Statistics

- 16 of the 23 students of the 2013 cohort are from the original 2010/11 cohort; 4 joined at start of 2012 cohort; 3 joined at start of 2013 cohort.
- 83% (19) accepted into a tertiary level programme, and 60% (14) have entered at degree level
- 70% (16) are in health programmes (Certificate and Degree level) and of these 16 students – 12 are in Health degrees and 4 are in Health Certificates (direct pathway to a Health Science degree)

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# 2013 Year 13 Statistics

- Of the 16 students entering university, 6 students received scholarships worth an estimate of \$20,500 for 2014.
  - 1 student was awarded the NCEA Scholarship in Biology, and in English
- 70% gained University Entrance (UE) – outperforming Pacific national of 35% and national rates for all ethnicities and deciles of 52%

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# Where are they now?

## 2013 Year 13 cohort destinations

Tertiary Institute	Tertiary Level		Total
	Certificate	Degree	
Tertiary Programme			
<b>Auckland University of Technology</b>		<b>3</b>	<b>3</b>
Bachelor of Business		1	1
Bachelor of Health Science		2	2
<b>Manukau Institute of Technology</b>		<b>1</b>	<b>1</b>
Nursing Pacific		1	1
<b>Otago University</b>		<b>6</b>	<b>6</b>
Health Science First Year		6	6
<b>Other (Sports Leadership)</b>	<b>1</b>		<b>1</b>
<b>University of Auckland</b>	<b>3</b>	<b>3</b>	<b>6</b>
Auckland Uni Health Cert	3		3
Bachelor of Arts		1	1
Bachelor of Science		1	1
Biomedical Science First Year		1	1
<b>University of Canterbury</b>		<b>1</b>	<b>1</b>
Speech and Language Therapy		1	1
<b>University of Waikato</b>	<b>1</b>		<b>1</b>
Foundation Certificate Pre-nursing	1		1
<b>Total</b>	<b>5</b>	<b>14</b>	<b>19</b>

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# Influencing factors for success

- Relationships / Partnerships – Pasifika Medical Association (PMA), students, parents and teachers, academic mentoring
- Resources – PMA

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# Influencing factors for success

- Expectations – students, parents, teachers, tutorials, excursions, term holiday workshops
- Programme Structure
- Course Structure
- Contextual learning

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