

4 Analysis of Variance 2021 (Te tātari i ngā rerekētanga)

Student Achievement Target 1

Strategic Goal 2	Students will achieve excellent academic results.																																																																																																																																																																																																																																					
Target 1	All students achieve NCEA Level 2 with meaningful grades (i.e. an increase in certificate endorsement rates at Level 2).																																																																																																																																																																																																																																					
Baseline data	<p>Students did not do NCEA Level 1 in 2020. We want to track their progress to ensure they are achieving well at Level 2.</p> <p>We will monitor wellbeing for these students to see if it has made a difference not doing NCEA Level 1. We have developed base line data for attendance, transfers and achievement with the 2020 Year 12 cohort and will make comparisons with the 2021 cohort.</p> <p>2020 Certificate Endorsement: Level 2: Excellence Endorsement 14.5% Merit Endorsement 24.3%</p> <p>While these are in line with previous years' results, we would expect an increase with the increased content being taught at Year 11 in 2020 due to not doing NCEA Level 1.</p> <p>Pass rate for NCEA Level 2 in 2020 was 97%.</p>																																																																																																																																																																																																																																					
Analysis 2021	<p>Achievement in NCEA and UE: Lincoln High School Generated 26-Jan-2022</p> <p>PR2 - Enrolment Based Cumulative Overall Results</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Academic Year</th> <th colspan="4">Lincoln High School</th> <th colspan="4">National</th> <th colspan="4">Decile 10</th> </tr> <tr> <th>Year 11 NCEA L1</th> <th>Year 12 NCEA L2</th> <th>Year 13 NCEA L3</th> <th>Year 13 UE</th> <th>Year 11 NCEA L1</th> <th>Year 12 NCEA L2</th> <th>Year 13 NCEA L3</th> <th>Year 13 UE</th> <th>Year 11 NCEA L1</th> <th>Year 12 NCEA L2</th> <th>Year 13 NCEA L3</th> <th>Year 13 UE</th> </tr> </thead> <tbody> <tr> <td>2017</td> <td>88.5</td> <td>96.5</td> <td>82.7</td> <td>57.0</td> <td>75.0</td> <td>78.5</td> <td>65.5</td> <td>48.9</td> <td>84.3</td> <td>85.2</td> <td>80.6</td> <td>72.8</td> </tr> <tr> <td>2018</td> <td>90.4</td> <td>91.7</td> <td>84.2</td> <td>57.5</td> <td>72.4</td> <td>77.6</td> <td>66.1</td> <td>48.9</td> <td>81.4</td> <td>85.0</td> <td>80.8</td> <td>72.2</td> </tr> <tr> <td>2019</td> <td>95.6</td> <td>91.4</td> <td>84.4</td> <td>56.5</td> <td>70.6</td> <td>77.5</td> <td>67.3</td> <td>49.3</td> <td>80.0</td> <td>83.5</td> <td>80.1</td> <td>70.9</td> </tr> <tr> <td>2020</td> <td>0.4</td> <td>97.7</td> <td>85.1</td> <td>61.3</td> <td>71.8</td> <td>80.1</td> <td>72.1</td> <td>53.4</td> <td>75.0</td> <td>85.3</td> <td>81.7</td> <td>74.1</td> </tr> <tr> <td>2021</td> <td>0.4</td> <td>97.2</td> <td>82.3</td> <td>57.0</td> <td>68.3</td> <td>77.2</td> <td>69.8</td> <td>50.3</td> <td>71.7</td> <td>84.7</td> <td>81.7</td> <td>72.3</td> </tr> </tbody> </table> <p>NCEA Certificate Endorsement: Lincoln High School Generated 26-Jan-2022</p> <p>PR4 - Cumulative Results by Percentage</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Academic Year</th> <th colspan="3">Lincoln High School</th> <th colspan="3">National</th> <th colspan="3">Decile 10</th> </tr> <tr> <th>Year 11 NCEA Level 1</th> <th>Year 12 NCEA Level 2</th> <th>Year 13 NCEA Level 3</th> <th>Year 11 NCEA Level 1</th> <th>Year 12 NCEA Level 2</th> <th>Year 13 NCEA Level 3</th> <th>Year 11 NCEA Level 1</th> <th>Year 12 NCEA Level 2</th> <th>Year 13 NCEA Level 3</th> </tr> </thead> <tbody> <tr> <td colspan="10"><u>Achieved with Excellence</u></td> </tr> <tr> <td>2017</td> <td>18.6</td> <td>17.9</td> <td>7.3</td> <td>20.0</td> <td>16.4</td> <td>15.5</td> <td>34.9</td> <td>29.8</td> <td>23.4</td> </tr> <tr> <td>2018</td> <td>14.7</td> <td>16.0</td> <td>15.9</td> <td>20.5</td> <td>16.5</td> <td>15.0</td> <td>36.5</td> <td>28.6</td> <td>23.5</td> </tr> <tr> <td>2019</td> <td>20.2</td> <td>11.4</td> <td>9.8</td> <td>19.9</td> <td>16.7</td> <td>14.8</td> <td>33.9</td> <td>28.7</td> <td>22.2</td> </tr> <tr> <td>2020</td> <td></td> <td>14.8</td> <td>8.3</td> <td>20.7</td> <td>17.9</td> <td>17.5</td> <td>36.4</td> <td>30.8</td> <td>26.1</td> </tr> <tr> <td>2021</td> <td></td> <td>14.9</td> <td>10.3</td> <td>21.1</td> <td>17.7</td> <td>17.8</td> <td>38.1</td> <td>30.4</td> <td>26.9</td> </tr> <tr> <td colspan="10"><u>Achieved with Merit</u></td> </tr> <tr> <td>2017</td> <td>34.9</td> <td>16.9</td> <td>25.2</td> <td>33.0</td> <td>23.5</td> <td>26.7</td> <td>39.6</td> <td>33.0</td> <td>35.7</td> </tr> <tr> <td>2018</td> <td>43.9</td> <td>26.3</td> <td>15.9</td> <td>34.3</td> <td>25.2</td> <td>27.0</td> <td>41.5</td> <td>35.2</td> <td>36.5</td> </tr> <tr> <td>2019</td> <td>35.4</td> <td>26.5</td> <td>26.4</td> <td>33.9</td> <td>25.1</td> <td>26.2</td> <td>41.8</td> <td>35.1</td> <td>34.4</td> </tr> <tr> <td>2020</td> <td></td> <td>24.1</td> <td>22.3</td> <td>32.3</td> <td>24.9</td> <td>26.3</td> <td>39.5</td> <td>34.2</td> <td>34.4</td> </tr> <tr> <td>2021</td> <td></td> <td>23.2</td> <td>19.5</td> <td>32.2</td> <td>24.2</td> <td>25.6</td> <td>37.9</td> <td>32.6</td> <td>32.9</td> </tr> </tbody> </table> <p>Analysis for NCEA Level 2:</p>	Academic Year	Lincoln High School				National				Decile 10				Year 11 NCEA L1	Year 12 NCEA L2	Year 13 NCEA L3	Year 13 UE	Year 11 NCEA L1	Year 12 NCEA L2	Year 13 NCEA L3	Year 13 UE	Year 11 NCEA L1	Year 12 NCEA L2	Year 13 NCEA L3	Year 13 UE	2017	88.5	96.5	82.7	57.0	75.0	78.5	65.5	48.9	84.3	85.2	80.6	72.8	2018	90.4	91.7	84.2	57.5	72.4	77.6	66.1	48.9	81.4	85.0	80.8	72.2	2019	95.6	91.4	84.4	56.5	70.6	77.5	67.3	49.3	80.0	83.5	80.1	70.9	2020	0.4	97.7	85.1	61.3	71.8	80.1	72.1	53.4	75.0	85.3	81.7	74.1	2021	0.4	97.2	82.3	57.0	68.3	77.2	69.8	50.3	71.7	84.7	81.7	72.3	Academic Year	Lincoln High School			National			Decile 10			Year 11 NCEA Level 1	Year 12 NCEA Level 2	Year 13 NCEA Level 3	Year 11 NCEA Level 1	Year 12 NCEA Level 2	Year 13 NCEA Level 3	Year 11 NCEA Level 1	Year 12 NCEA Level 2	Year 13 NCEA Level 3	<u>Achieved with Excellence</u>										2017	18.6	17.9	7.3	20.0	16.4	15.5	34.9	29.8	23.4	2018	14.7	16.0	15.9	20.5	16.5	15.0	36.5	28.6	23.5	2019	20.2	11.4	9.8	19.9	16.7	14.8	33.9	28.7	22.2	2020		14.8	8.3	20.7	17.9	17.5	36.4	30.8	26.1	2021		14.9	10.3	21.1	17.7	17.8	38.1	30.4	26.9	<u>Achieved with Merit</u>										2017	34.9	16.9	25.2	33.0	23.5	26.7	39.6	33.0	35.7	2018	43.9	26.3	15.9	34.3	25.2	27.0	41.5	35.2	36.5	2019	35.4	26.5	26.4	33.9	25.1	26.2	41.8	35.1	34.4	2020		24.1	22.3	32.3	24.9	26.3	39.5	34.2	34.4	2021		23.2	19.5	32.2	24.2	25.6	37.9	32.6	32.9
Academic Year	Lincoln High School				National				Decile 10																																																																																																																																																																																																																													
	Year 11 NCEA L1	Year 12 NCEA L2	Year 13 NCEA L3	Year 13 UE	Year 11 NCEA L1	Year 12 NCEA L2	Year 13 NCEA L3	Year 13 UE	Year 11 NCEA L1	Year 12 NCEA L2	Year 13 NCEA L3	Year 13 UE																																																																																																																																																																																																																										
2017	88.5	96.5	82.7	57.0	75.0	78.5	65.5	48.9	84.3	85.2	80.6	72.8																																																																																																																																																																																																																										
2018	90.4	91.7	84.2	57.5	72.4	77.6	66.1	48.9	81.4	85.0	80.8	72.2																																																																																																																																																																																																																										
2019	95.6	91.4	84.4	56.5	70.6	77.5	67.3	49.3	80.0	83.5	80.1	70.9																																																																																																																																																																																																																										
2020	0.4	97.7	85.1	61.3	71.8	80.1	72.1	53.4	75.0	85.3	81.7	74.1																																																																																																																																																																																																																										
2021	0.4	97.2	82.3	57.0	68.3	77.2	69.8	50.3	71.7	84.7	81.7	72.3																																																																																																																																																																																																																										
Academic Year	Lincoln High School			National			Decile 10																																																																																																																																																																																																																															
	Year 11 NCEA Level 1	Year 12 NCEA Level 2	Year 13 NCEA Level 3	Year 11 NCEA Level 1	Year 12 NCEA Level 2	Year 13 NCEA Level 3	Year 11 NCEA Level 1	Year 12 NCEA Level 2	Year 13 NCEA Level 3																																																																																																																																																																																																																													
<u>Achieved with Excellence</u>																																																																																																																																																																																																																																						
2017	18.6	17.9	7.3	20.0	16.4	15.5	34.9	29.8	23.4																																																																																																																																																																																																																													
2018	14.7	16.0	15.9	20.5	16.5	15.0	36.5	28.6	23.5																																																																																																																																																																																																																													
2019	20.2	11.4	9.8	19.9	16.7	14.8	33.9	28.7	22.2																																																																																																																																																																																																																													
2020		14.8	8.3	20.7	17.9	17.5	36.4	30.8	26.1																																																																																																																																																																																																																													
2021		14.9	10.3	21.1	17.7	17.8	38.1	30.4	26.9																																																																																																																																																																																																																													
<u>Achieved with Merit</u>																																																																																																																																																																																																																																						
2017	34.9	16.9	25.2	33.0	23.5	26.7	39.6	33.0	35.7																																																																																																																																																																																																																													
2018	43.9	26.3	15.9	34.3	25.2	27.0	41.5	35.2	36.5																																																																																																																																																																																																																													
2019	35.4	26.5	26.4	33.9	25.1	26.2	41.8	35.1	34.4																																																																																																																																																																																																																													
2020		24.1	22.3	32.3	24.9	26.3	39.5	34.2	34.4																																																																																																																																																																																																																													
2021		23.2	19.5	32.2	24.2	25.6	37.9	32.6	32.9																																																																																																																																																																																																																													

1. 2021 was another challenging year with some time lost through COVID –19 lockdowns.
2. Our aim was to exceed the 2020 pass rate for NCEA Level 2 and currently with provisional results we have 97.2%
3. Our NCEA Level 2 pass rate is 12.5% higher than other decile 10 schools.
4. Male pass rate (95.2%) was similar to the female pass rate (99.2%) at Level 2.
5. The Excellence endorsement rate (14.9%) and the Merit endorsement rate (23.2%) were very similar to the 2020 results but it is noted that in 2020 the students had to get 46 credits to achieve an endorsed certificate. This gives a combined endorsement rate of 38.1%

Evaluation and where to from here:

1. We will introduce a Year 12 Diploma for our students with a combined focus on 95% attendance, 70% success with NCEA internals plus Level 1 numeracy and literacy.
2. The endorsement rate is steady but we will aim to increase this rate in 2022 through close monitoring of results for the Year 12 Diploma.

Student Achievement Target 2

Strategic Goal 2	Students will achieve excellent academic results.																
Target 2	The percentage of Year 13 students leaving school with UE will increase to 84% (i.e. those who are intending to gain UE – not the NZQA measure of those eligible for Level 3) and the percentage of males will increase to 78%.																
Baseline data	<p>NZQA’s statistics on UE pass rates are not meaningful as they do not take in to account the students that are not eligible to obtain UE due to the courses being studied (not UE approved subjects). UE is not part of the academic pathway for all students. What is important is that we ensure they are aware of the pathways.</p> <p>All students were surveyed and Linc teachers monitored the students UE progress as a way of addressing the expected target for our UE success rate. Our statistics are based on our students’ intentions/goals and are therefore specific to our school which is more meaningful.</p> <p>Based on a school survey:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">• In 2014 74% of cohort surveyed, 85% were planning to gain UE</td> <td style="width: 40%;"></td> </tr> <tr> <td>• In 2015 72% of cohort surveyed, 82% were planning to gain UE</td> <td style="text-align: right;">Result: 71%</td> </tr> <tr> <td>• In 2016 72% of cohort surveyed, 83% were planning to gain UE</td> <td style="text-align: right;">Result: 73%</td> </tr> <tr> <td>• In 2017 100% cohort surveyed. 78% were planning to gain UE</td> <td style="text-align: right;">Result: 76%</td> </tr> <tr> <td>• In 2018 100% cohort surveyed 84% were planning to gain UE</td> <td style="text-align: right;">Result: 80.8%</td> </tr> <tr> <td>• In 2019 100% cohort surveyed 82.6% were planning to gain UE</td> <td style="text-align: right;">Result: 81.4%</td> </tr> <tr> <td>• In 2020 100% cohort surveyed 85.7% were planning to gain UE</td> <td style="text-align: right;">Result: 83.2%</td> </tr> <tr> <td>• In 2020 74.4% of males achieved UE</td> <td></td> </tr> </table>	• In 2014 74% of cohort surveyed, 85% were planning to gain UE		• In 2015 72% of cohort surveyed, 82% were planning to gain UE	Result: 71%	• In 2016 72% of cohort surveyed, 83% were planning to gain UE	Result: 73%	• In 2017 100% cohort surveyed. 78% were planning to gain UE	Result: 76%	• In 2018 100% cohort surveyed 84% were planning to gain UE	Result: 80.8%	• In 2019 100% cohort surveyed 82.6% were planning to gain UE	Result: 81.4%	• In 2020 100% cohort surveyed 85.7% were planning to gain UE	Result: 83.2%	• In 2020 74.4% of males achieved UE	
• In 2014 74% of cohort surveyed, 85% were planning to gain UE																	
• In 2015 72% of cohort surveyed, 82% were planning to gain UE	Result: 71%																
• In 2016 72% of cohort surveyed, 83% were planning to gain UE	Result: 73%																
• In 2017 100% cohort surveyed. 78% were planning to gain UE	Result: 76%																
• In 2018 100% cohort surveyed 84% were planning to gain UE	Result: 80.8%																
• In 2019 100% cohort surveyed 82.6% were planning to gain UE	Result: 81.4%																
• In 2020 100% cohort surveyed 85.7% were planning to gain UE	Result: 83.2%																
• In 2020 74.4% of males achieved UE																	

Analysis for 2021

2021 UE Results Summary

Description	Total	All	Male	Female
Total students surveyed:	233	-	106	127
Amount aiming for UE (% of cohort)	170	73.0%	59.4%	84.3%
Amount eligible to gain UE (% of cohort)	195	83.7%	75.5%	90.6%
Proportion aiming for UE that are eligible	-	87.2%	78.8%	93.0%
Actual number gaining UE (% wanting UE)	140	82.4%	81.0%	83.2%

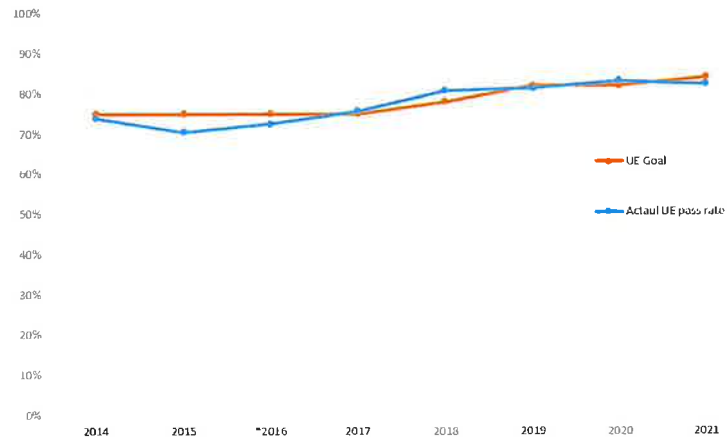
1

LHS UE pass rate target	196	84%	-	-	
LHS UE pass rate - those aiming & gaining UE		82.4%	81.0%	83.2%	2021
		83.2%	74.4%	85.6%	2020
		81.4%	76.5%	85.0%	2019
		80.8%	77.3%	83.5%	2018
		75.7%	-	-	2017
		72.6%	-	-	*2016
		70.6%	-	-	2015
		74.0%	-	-	2014

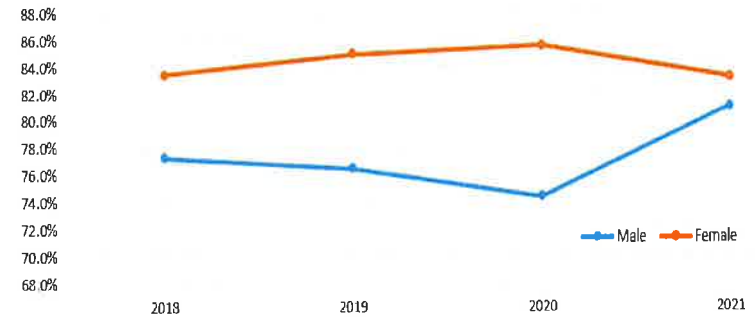
Notes:

- 1) 100% of Yr 13 students surveyed at the end of Term 4
- 2) * Graduation Diploma introduced
- 3) 2017 was the first year to have 100% of cohort surveyed by Linc teachers
- 4) Approx. 80% of cohort surveyed in 2014 & 2015
- 5) Target increased from 75% to 78% in 2018
- 6) Target increased from 78% to 82% in 2019
- 7) Target increased from 78% to 84% in 2021
- 8) Gender data collated as of 2018
- 9) Total number of students includes those enrolled at the start of Term 3

Lincoln High School University Entrance Pass Rate (those aiming for and gaining UE)



UE Success Rate - Gender comparison



Analysis

- We were close to the overall UE pass rate target of 84% with a score of 82.4%. The second highest rate in the seven years since this data has been collated. The accuracy of the data collection depends on a number of teachers collating data at the end of term 3. The Mentoring programme in the school continues to strengthen and provide more opportunities to discuss goals and progress with students in Year 13.
- The Male UE pass rate was 81.0% which exceeded the target of 78%. In summary, a similar proportion of males and females are obtaining UE, however, less males are aiming for UE or are eligible to gain UE when compared to females.
- Students continue to opt for courses which they are interested in and are not always focused on whether or not they are UE approved. Some of our students do not see University as a future pathway, which is entirely appropriate for them.
- The Graduation Diploma is an established motivator for students that were challenged by NCEA Level 3. All students, that want to attend graduation met the graduation criteria, 91% of the cohort, in particular the 70% success rate with their internals.
- Investigating gender UE success rates has proved helpful in analysing the data. While our NZQA data for UE success remains lower than expected when compared to other Decile 10 schools, we find that 81.0% of boys and 83.2% of girls that wanted to achieve UE did achieve it which is an improvement on 2020 in terms of less difference between genders. The NZQA data doesn't have an accurate picture of UE attainment, as it is based on the students that can obtain Level 3 NCEA. This approach does not consider the important fact that some students are unable to obtain UE because of the combination of courses taken i.e. not taking three UE approved courses.

Evaluation and where to from here

- The challenge is to get more students to complete external examinations. Many will stop once they have Level 3 through internals. We will continue to support Linc teachers to monitor the goal for all Year 13 students but in particular our male students.
- It continues to be a concern for us that UE success is one measure that can't be directly read of the KAMAR system or the parent portal and hence the importance of closer monitoring and discussion on the goal.
- We will continue our 84% pass rate goal from 2021 and continue to compare male and female successes in UE as their statistics are becoming more similar.
- It is very evident that we started with a goal of 75% achievement in UE 6 years ago and have increased this to 84% in 2021 so the goal has enabled us to focus on improvement for our male learners.