## Summer Learning Programme 2018/2019

Northland

## The Programme

 6 primary schools (reporting on data from 5 schools): 444 students (more students received books however there is pre and post data for 444)

Year 3 = 135 Year 4 = 148 Year 5 = 161 Female = 212 Male = 232

 students received either 12 (higher reading levels) or 15 (lower levels) books



To improve students' reading achievement over the summer holidays

To combat the differential and cumulative impact of summer learning loss

To examine the effects of the programme on a cohort of students who have participated for 3 consecutive years

#### Measurements

• STAR Reading

Year	Pre Test	Post Test
3	STAR 3 – 4 B	STAR 3 – 4 B
4	STAR 3 – 4 C	STAR 5 – 6 A
5	STAR 5 – 6 B	STAR 5 – 6 B

#### STAR Reading Test 2<sup>nd</sup> Edition Revised 2011

Years 3-9

**STAR Reading Test** is designed to *supplement* the assessments teachers make every day. STAR assesses a range of reading skills that correspond closely to the main components of reading skills as outlined in *The Literacy Learning Progressions*.

## STAR ReadingAverage Scale ScoreYr 3Yr 4Yr 5Yr 6

A DOWN OF THE OWNER	53.8	81,4	97.6	109.0	117.9	125,2	133.7

Yr9

Vr 8

#### Average Progress

Yr 3-4	Yr 4-5	Yr 5-6	Yr 6-7	Yr 7-8	Yr 8-9
27.6	16.2	11.4	8.9	7.3	8.5

Star Scale Score (STAR) from Table 6 p.33, Teacher Manual

Sub-tests: Word Recognition, Sentence Comprehension, Paragraph Comprehension, Vocabulary Range Additional Subtests Year 7-9: The Language of Advertising, Styles of Writing

### **Overall Results: Reading Year 3**

Year Level	N	Pretest mean scale score	Posttest mean scale score	Difference	Average progress STAR Year 3 to 4
3	135	64.06 <i>66.33</i>	64.85 <i>67.49</i>	+ 0.79 + 1.16	+ 2.3 per month
					+ 5.75 over 2 ½ months
Gender					
Female	65	67.29	68.80	+ 1.51	
Male	70	61.05	61.19	+ 0.14	

#### Year 3: Ethnicity

	Ν	Pre Mean	Post Mean	Difference
Māori	91	63.07	63.94	+ 0.87
NZ European	35	65.67	65.88	+ 0.21
Pacific	5	65.80	67.32	+ 1.52
Other	4	70.25	73.62	+ 3.37

## Ability

• Ability levels based on Pre-test stanines:

ABILITY LEVEL	STANINE
Well Below	Stanine 1
Below	Stanines 2 and 3
At	Stanines 4, 5 and 6
Above	Stanines 7, 8 and 9

### Year 3: Ability

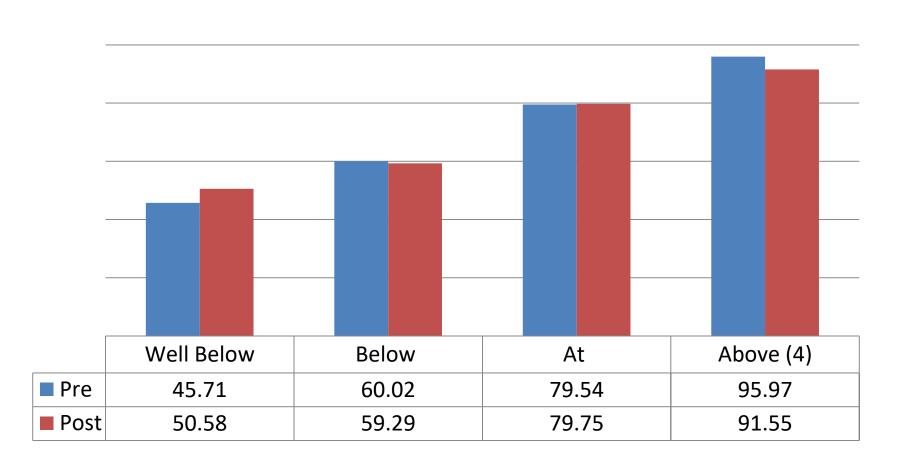
Group	Ν	Pre Mean	Post Mean	Difference
Well Below	32	45.71	50.58	+ 4.87
Below *	55	60.02	59.29	- 0.73
At	44	79.54	79.75	+ 0.21
Above**	4	95.97	91.55	- 4.42

\* 5 students dropped between 10-20 scale score points at post test and

2 students dropped between 25-40 ss points

\*\* 1 student decreased by more than 10 ss points at post test

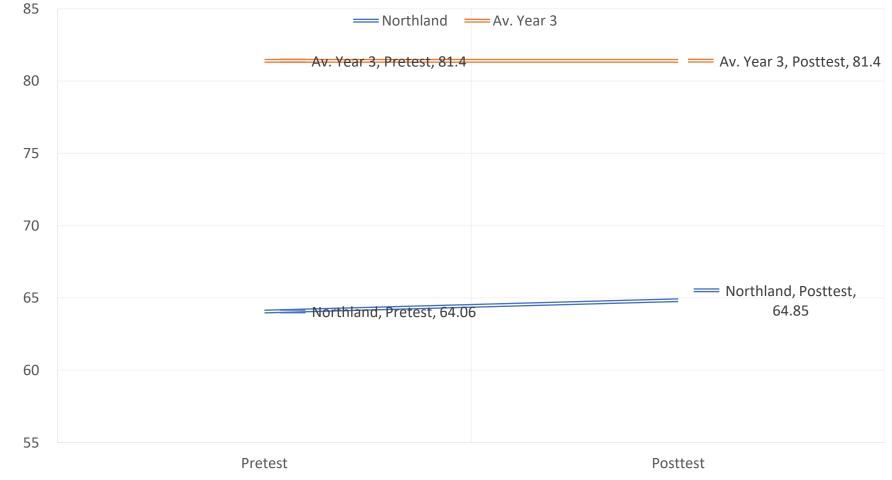
### Yr. 3 Reading Progress – Ability Levels



#### Year 3: Subtests

Subtest	Pre Mean	Post Mean	Difference
Word Recognition	6.32	6.59	+ 0.27
Sentence Comp.	4.58	4.84	+ 0.26
Paragraph Comp.	5.16	5.10	- 0.06
Vocabulary	3.82	3.91	+ 0.09

## Northland Schools Year 3 & Average Year 3



### **Overall Results: Reading Year 4**

Year	Ν	Pre Mean SS	Post Mean SS	Difference	Average progress STAR Year 4 – 5
4	148	82.61 <i>82.47</i>	86.94 <i>89.13</i>	+ <b>4.33</b> + 6.66	+ 1.35 per month
				Greater than expected progress	+ 3.37 over 2 ½ months
Gender					
Female	72	84.38	89.25	+ 4.87	
Male	76	80.94	84.76	+ 3.82	

### Year 4: Ethnicity

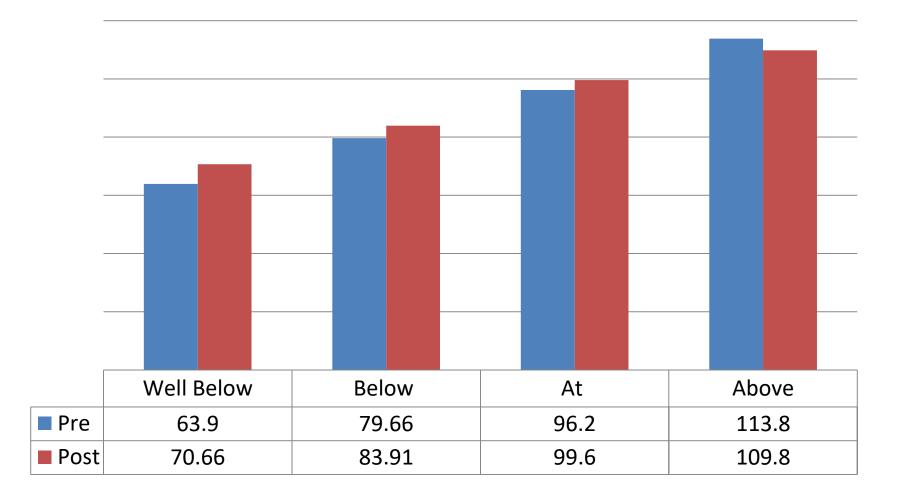
	N	Pre Mean	Post Mean	Difference
Māori	111	81.53	85.65	+ 4.12
NZ European	37	85.87	90.82	+ 4.95

### Year 4: Ability

Group	Ν	Pre Mean	Post Mean	Difference	Average Progress
Well Below	43	63.90	70.66	+ 6.76	greater than expected progress
Below	44	79.66	83.91	+ 4.25	greater than expected progress
At	55	96.20	99.60	+ 3.40	greater than expected progress
Above *	6	113.80	109.80	- 4.00	

\* 2 students each dropped by more than 10 scale score points at post test

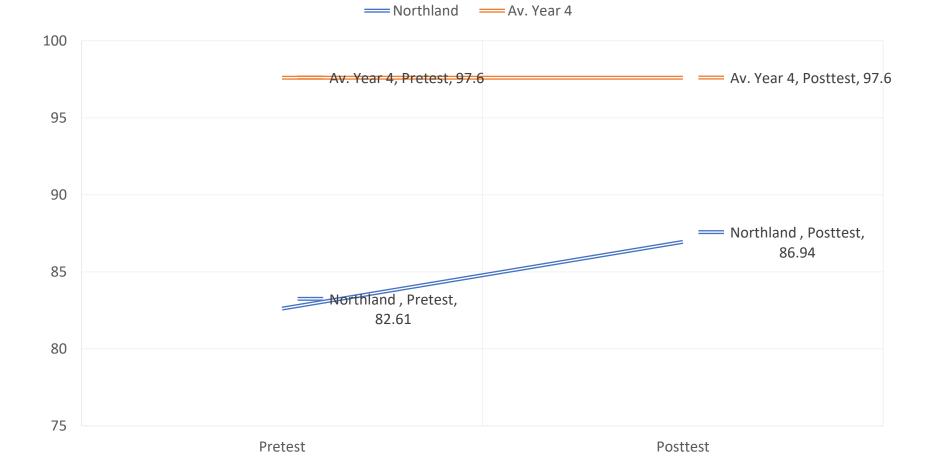
#### Yr. 4 Reading Progress – Ability Levels



#### Year 4: Subtests

Subtest	Pre Mean	Post Mean	Difference
Word Recognition	6.83	7.48	+ 0.65
Sentence Comp.	4.97	5.36	+ 0.39
Paragraph Comp.	8.28	6.14	- 2.14
Vocabulary	3.54	5.62	+ 2.08

# Northland Schools Year 4 & Average Year 4



### **Overall Results: Reading Year 5**

Year	Ν	Pre Mean SS	Post Mean SS	Difference	Average progress STAR Year 5 - 6
5	161	98.16 <i>101.21</i>	101.97 <i>105.31</i>	+ 3.81 + 4.10	+ 0.95 per month
				Greater than expected progress	+ 2.37 over 2 ½ months
Gender					
Female	75	100.85	103.81	+ 2.96	
Male	86	95.82	100.37	+ 4.55	

### Year 5: Ethnicity

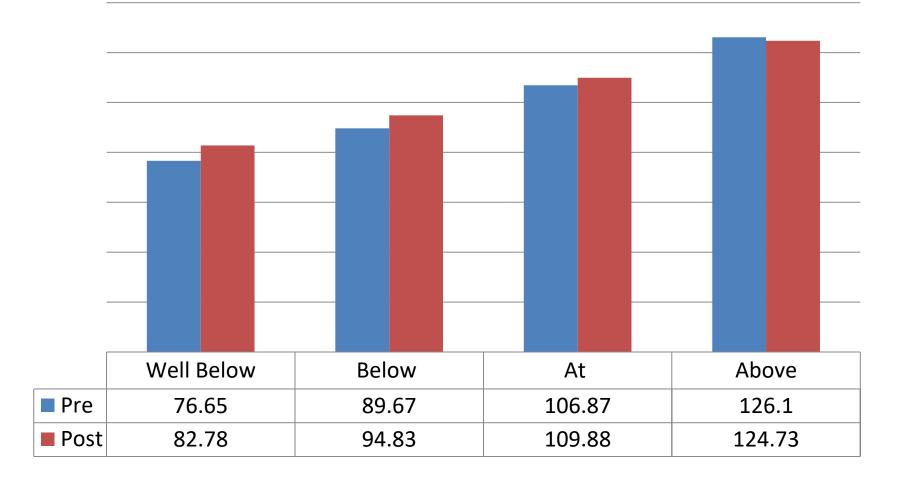
	Ν	Pre Mean	Post Mean	Difference
Māori	120	96.28	100.10	+ 3.82
NZ European	34	103.71	107.97	+ 4.26
Pacific	3	100.56	99.66	- 0.90
Other	4	105.57	108.80	+ 3.23

### Year 5: Ability

Group	Ν	Pre Mean	Post Mean	Difference	Average Progress
Well Below	28	76.65	82.78	+ 6.13	
Below	48	89.67	94.83	+ 5.16	
At	71	106.87	109.88	+ 3.01	
Above *	14	126.10	124.73	- 1.37	

\* 3 students each decreased by more than 10 scale score points at post test

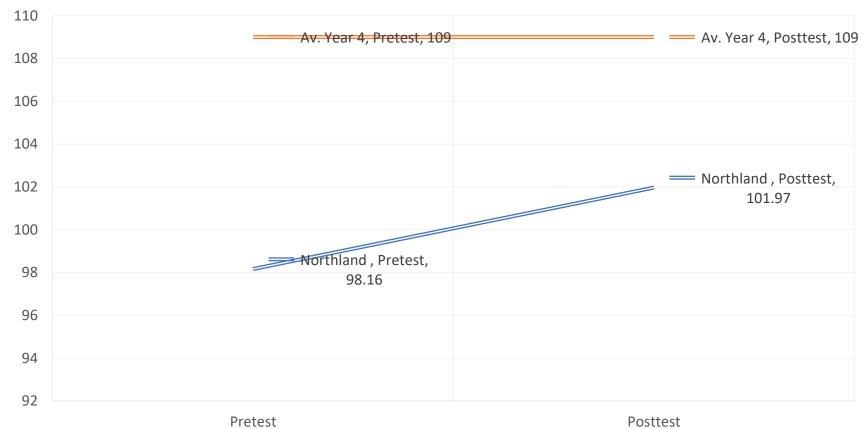
### Yr. 5 Reading Progress – Ability Levels



#### Year 5: Subtests

Subtest	Pre Mean	Post Mean	Difference
Word Recognition	7.28	7.45	+ 0.17
Sentence Comp.	5.58	6.48	+ 0.9
Paragraph Comp.	7.93	9.27	+ 1.34
Vocabulary	4.88	5.35	+ 0.47

# Northland Schools Year 5 & Average Year 5



— Northland — Av. Year 4

## Results Summary & Conclusions

#### Year 3

- gains for the Overall, Female and Male groups; the Female group made greater gains than the Male
- all Ethnicity groups gained
- the Well Below and At groups gained
- the Below and Above groups dropped 1 (out of 4) 'Above' student decreased by more than 10 scale score points at post test; 2 'Below' students decreased substantially at post test (between 25-40 ss points)
- mean subtest scores improved for 3 subtests however there was a slight drop in Paragraph Comprehension

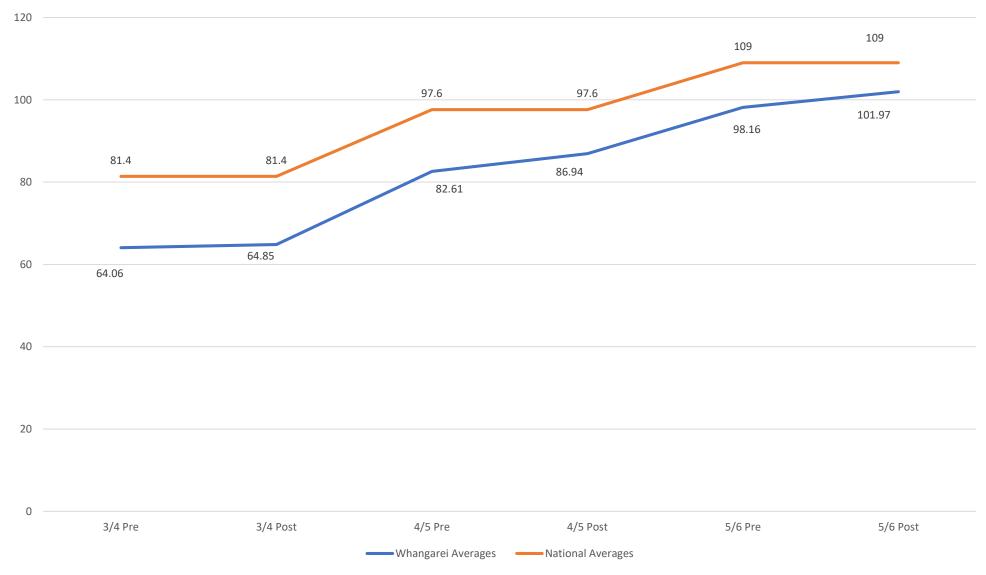
#### Year 4

- 'greater than expected progress' for: Overall, Female, Male, both Ethnicity groups, and Well Below, Below, and At ability groups
- the Above group dropped 2 (out of 6) students each dropped more than 10 scale score points at post test
- gains in 3 subtests
- small drop in Paragraph Comprehension

#### Year 5

- 'greater than expected progress' for: the Overall, Female, Male, NZ Maori, NZ European, 'Other', Well Below, Below, and At groups
- the Male group made greater gains than the Female group
- the Pacific group dropped slightly small sample size
- the Above group dropped 3 students each dropped by more than 10 scale score points
- gains in all subtests



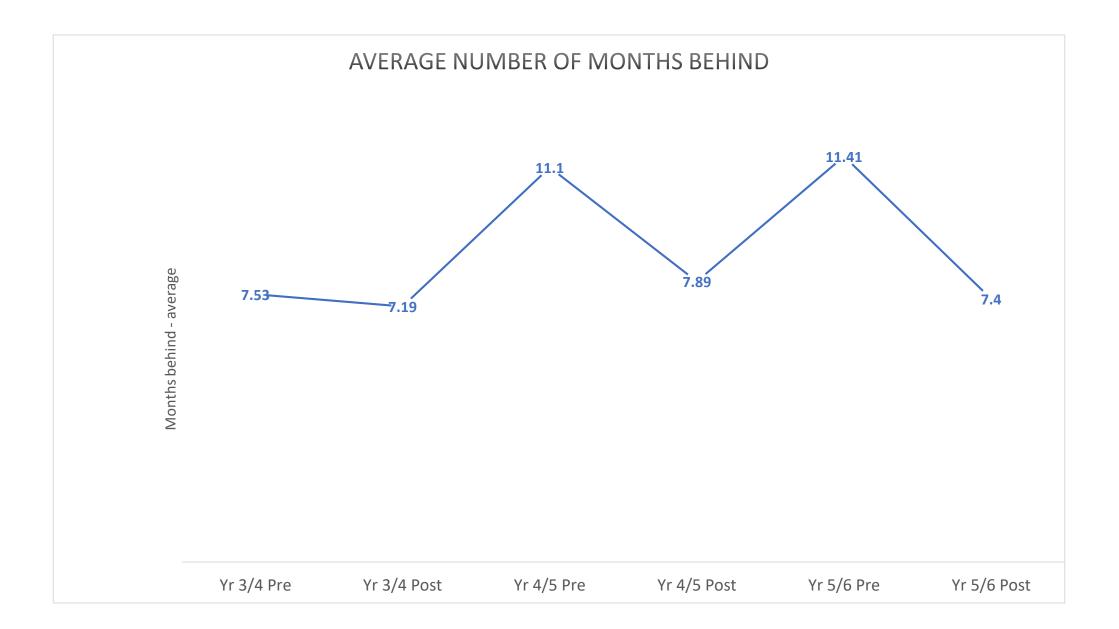


#### Student Progress vs National Averages - Whangarei

	Yr 3 / 4 Pre	Yr 3 / 4 Post	Yr 4/5 Pre	Yr 4/5 Post	Yr 5/6 Pre	Yr 5/6 Post
National Averages	81.4	81.4	97.6	97.6	109	109
Whangarei	64.06	64.85	82.61	86.94	98.16	101.97
Difference	17.34	16.55	14.99	10.66	10.84	7.03
Expected Progress/ Month	2.3	2.3	1.35	1.35	0.95	0.95

#### Average months behind in reading

	Yr 3 / 4 Pre	Yr 3 / 4 Post	Yr 4/5 Pre	Yr 4/5 Post	Yr 5/6 Pre	Yr 5/6 Post
Average months behind	7.53	7.19	11.10	7.89	11.41	7.40



### 3 Year Study: Northland

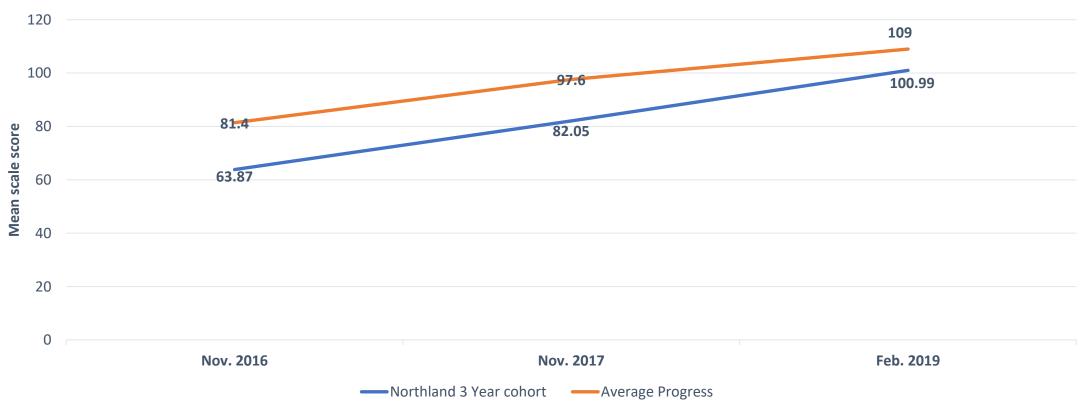
- interested in comparing our results with Allington et al., 2011, ie. gains were achieved when the same cohort of students participated in the summer reading programme over 3 years
- tracked progress of 84 students who began the summer reading programme as Year 3 students in 2016 and who have participated for 3 consecutive summers
- students from 3 schools: Hora Hora, Totara Grove, Whau Valley
- compared mean scale scores at point 1 (Nov. 2016) and at point 6 (Feb 2019) against average progress for Year 4 (Nov. 2016) and Year 6 (Feb 2019)
- equated this data to average months behind (estimation)

#### Overall Results: 3 Year Study

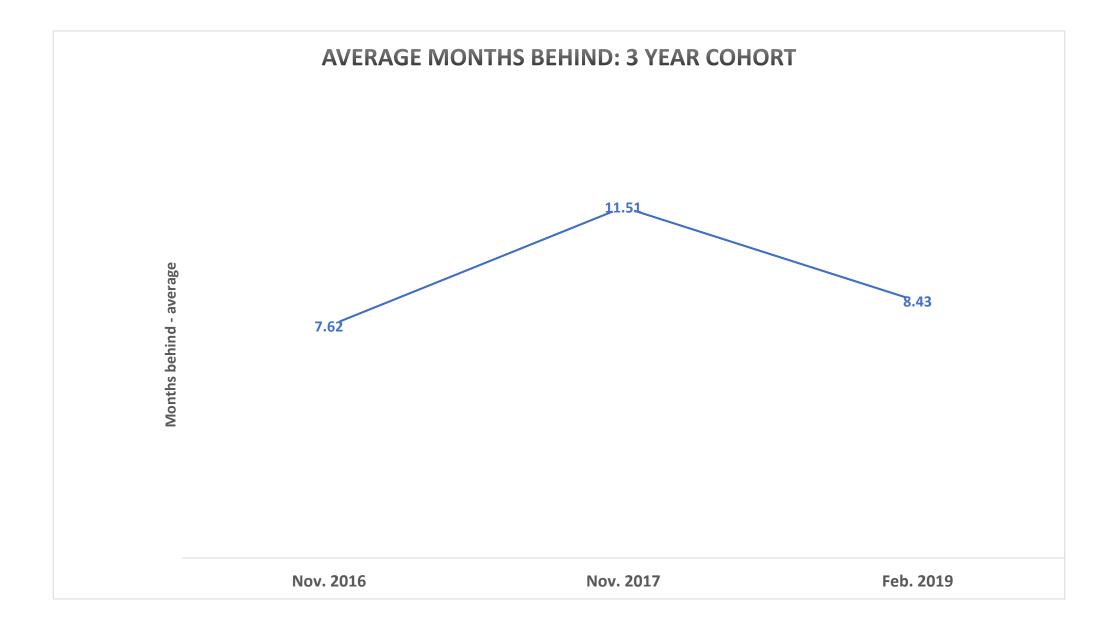
Years	N	Pre Mean SS Nov. 2016	Mean SS Nov. 2017	Post Mean SS Feb. 2019
3 – 6 2015- 2018	84 57	63.87 <i>70.35</i>	82.05 <i>91.3</i>	100.99 <i>107.9</i>
Gender				
Female	36	66.38	85.79	105.63
Male	48	61.98	79.25	97.52

### 3 Year Data: Northland

	Year 3 / 4 Pre 2016	Nov 2017	Year 5/6 Post 2019
National Averages	81.4	97.6	109.0
3 Year Cohort average (N=84)	63.87	82.05	100.99
Difference	17.53	15.55	8.01
Expected progress per month	2.3	1.35	0.95
Average months behind	7.62	11.51	8.43



#### **Northland 3 Year Cohort v Average Progress**



#### 3 Year Data Discussion

- results indicate that the gap has reduced over the 3 years
- this suggests that the cumulative effect of the summer reading programme together with school and home is having a positive impact on student achievement; while the summer slide has not been eliminated it has been reduced
- appears to support Allington et al.'s 2011 results

## The ABCs of Improved Reading

- A = access to books need a wide variety, but access alone not enough
- B = books that match readers' ability levels and interests not too easy and not too hard
- C = comprehension monitored and guided by an adult, teacher, or parent- the help of an adult who can ask questions and guide child to better understand what they are reading = <u>critical</u>

James Kim, Harvard University

 D= designated home liaison – visiting over the holidays supporting and encouraging child and parents & helping to keep the momentum going

## Discussion for 2019/2020

• student feedback on books