

# Summer Learning Programme 2018/2019

**South Auckland**

# The Programme

- 12 primary schools – 1724 students (more students received books however there is pre and post data for )
  - Year 3 = 582
  - Year 4 = 601
  - Year 5 = 495
  - Year 6 = 46
  - Female = 812      Male = 912
- students received either 6 (higher reading levels) or 10 (lower levels) books

# Objectives

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
6	STAR 5 – 6 C	STAR 7 – 8 A

# 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*.

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

## STAR Reading

### Average Scale Score

Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9
53.8	81.4	97.6	109.0	117.9	125.2	133.7

### 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*

# 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	582	68.04	71.03	+ 2.99	+ 2.3 per month
<i>2017/2018</i>		<i>67.58</i>	<i>71.32</i>		
<i>2016/2017</i>		<i>74.53</i>	<i>74.39</i>		
<i>2015/2016</i>		<i>68.75</i>	<i>72.14</i>		
<i>2014/2015</i>		<i>66.18</i>	<i>72.05</i>		
					+ 5.75 over 2 ½ months
<b>Gender</b>					
Female	268	69.76	72.25	+ 2.49	
Male	314	66.57	69.99	+ 3.42	

# Year 3 Ethnicity

	N	Pre Mean	Post Mean	Difference
NZ Maori	146	63.11	65.63	+ 2.52
Samoaan	160	70.06	73.24	+ 3.18
Tongan	103	69.29	71.05	+ 1.76
CI Maori	71	68.60	71.08	+ 2.48
Fijian	36	70.68	77.07	+ 6.39
Indian	16	71.28	77.13	+ 5.85
Niuean	15	68.90	72.95	+ 4.05
Other SE Asian	11	67.35	73.32	+ 5.97
NZ European	10	73.02	77.83	+ 4.81
OPP	8	68.75	71.73	+ 2.98
Other	6	71.38	68.76	- 2.62

# Ability

- Ability levels based on Pre-test stanines:

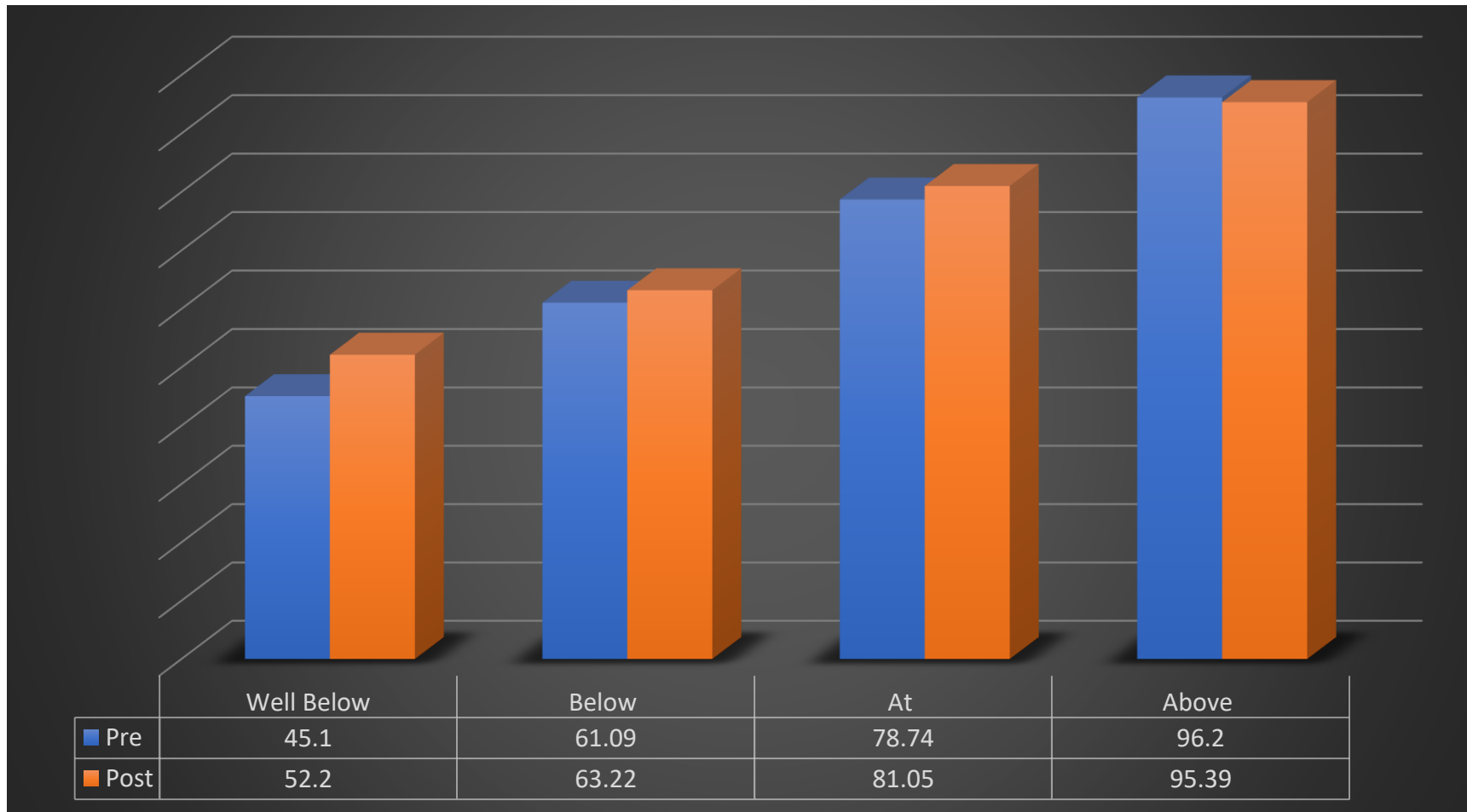
ABILITY LEVEL	STANINE
Well Below	Stanine 1
Below	Stanines 2 and 3
At	Stanines 4, 5 and 6
Above	Stanines 7, 8 and 9



# Year 3: Ability

Group	N	Pre Mean	Post Mean	Difference	Average Progress +5.75
Well Below	101	45.10	52.20	+ 7.10	<i>Greater than expected progress</i>
Below	179	61.09	63.22	+ 2.13	
At	283	78.74	81.05	+ 2.31	
Above	19	96.20	95.39	- 0.81	

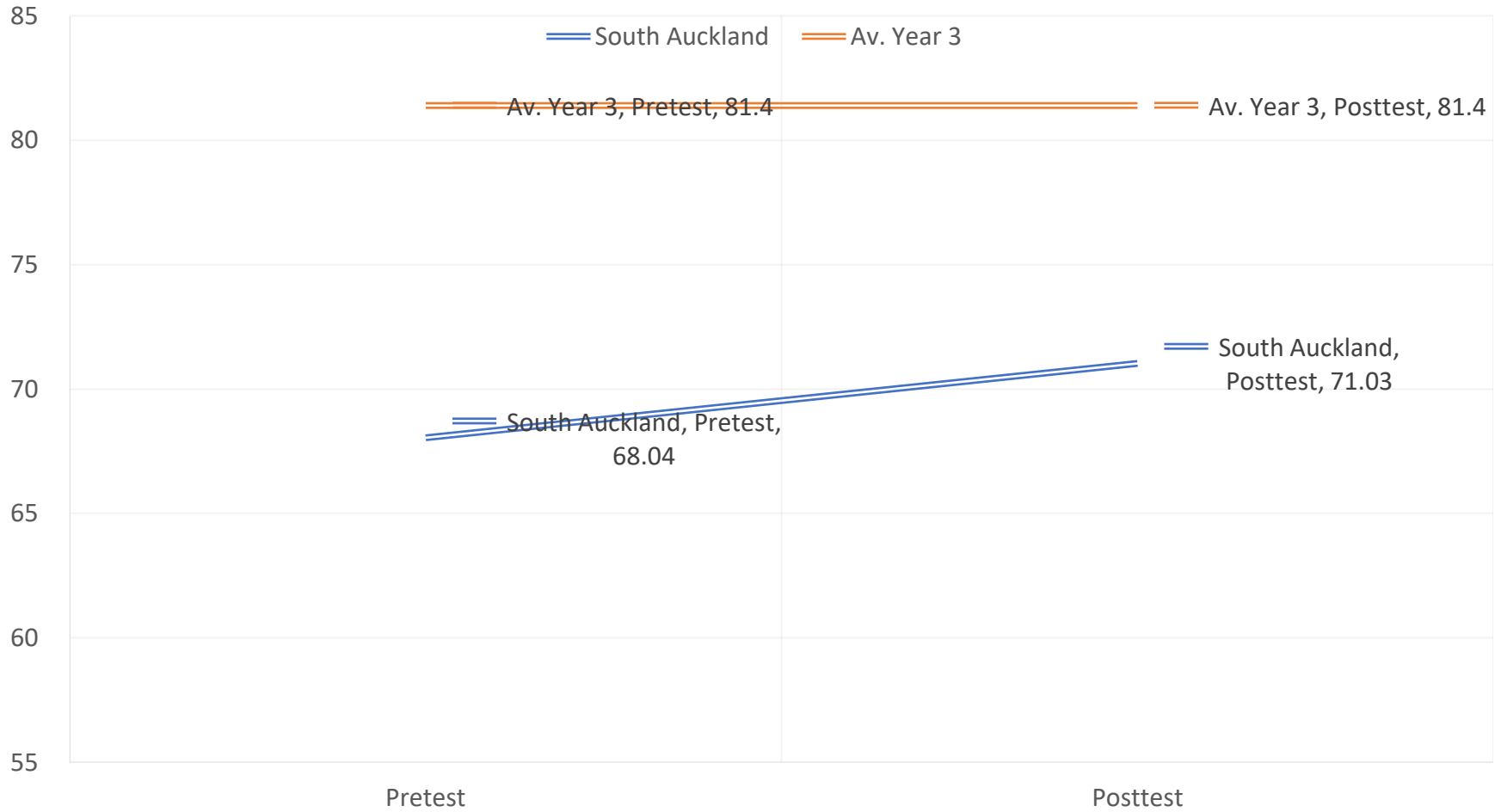
# Yr. 3 Reading Progress – Ability Levels



# Year 3: Subtests

Subtest	Pre Mean	Post Mean	Difference
Word Recognition	6.68	7.17	+ 0.49
Sentence Comp.	5.21	5.76	+ 0.55
Paragraph Comp.	6.58	7.15	+ 0.57
Vocabulary	4.54	4.88	+ 0.34

# South Auckland Schools Year 3 & Average Year 3



# Overall Results: Reading Year 4

Year	N	Pre Mean SS	Post Mean SS	Difference	Average progress STAR Year 4 – 5
4	601	84.03	87.17	+ 3.14	+ 1.35 per month
<i>2017/2018</i>		<i>84.93</i>	<i>89.46</i>		
<i>2016/2017</i>		<i>83.51</i>	<i>87.39</i>		
<i>2015/2016</i>		<i>83.22</i>	<i>87.01</i>		
<i>2014/2015</i>		<i>85.80</i>	<i>90.26</i>		
				<i>Greater than expected progress</i>	+ 3.37 over 2 ½ months
<b>Gender</b>					
Female	279	87.34	90.84	+ 3.50	
Male	322	81.17	83.98	+ 2.81	

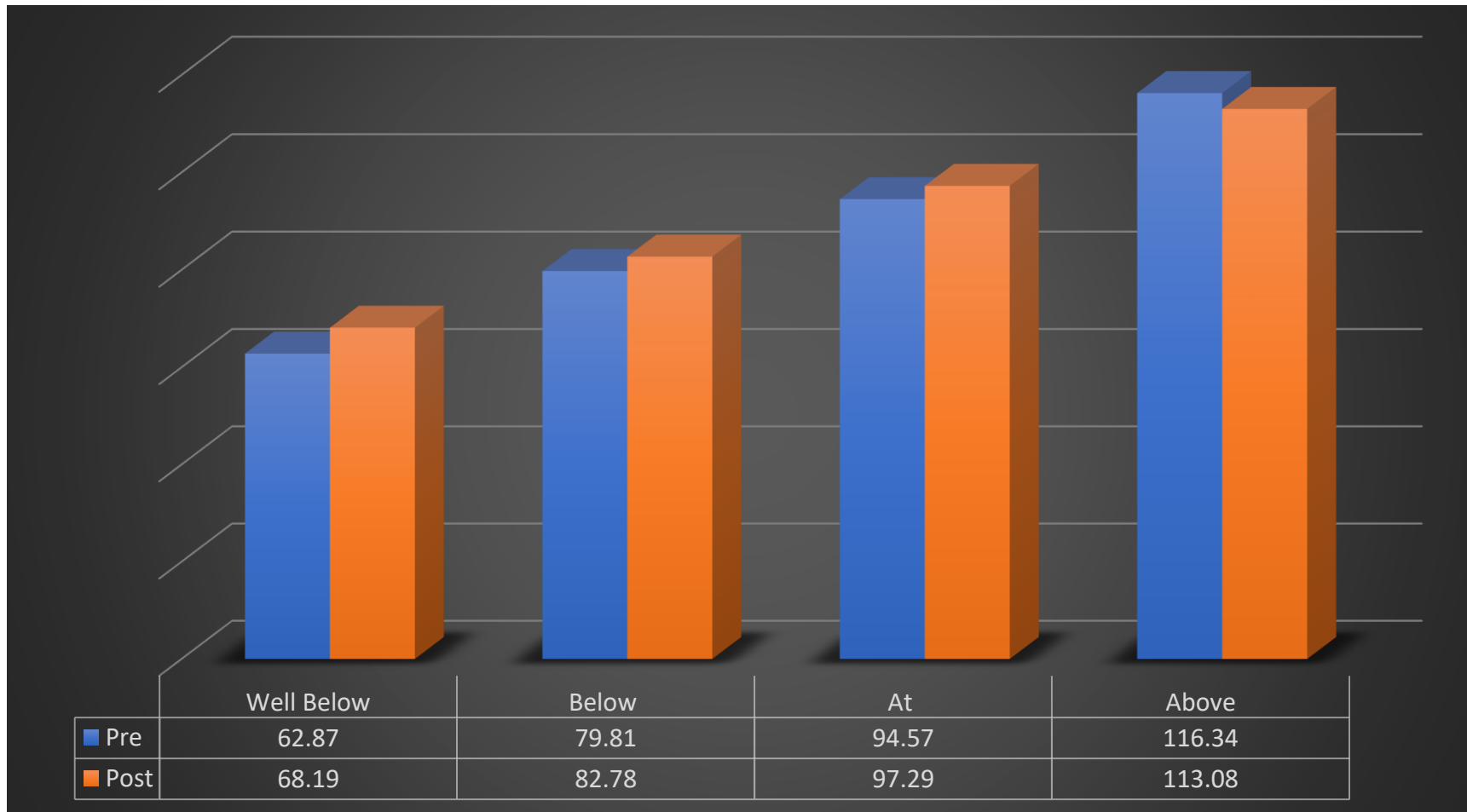
# Year 4 Ethnicity

	N	Pre Mean	Post Mean	Difference
NZ Māori	149	81.59	85.02	+ 3.43
Samoaan	167	86.14	88.59	+ 2.45
Tongan	102	83.54	87.31	+ 3.77
CI Māori	77	80.95	83.75	+ 2.80
Fijian	28	88.24	92.30	+ 4.06
Niuean	21	84.85	90.54	+ 5.69
Indian	14	84.47	86.34	+ 1.87
Other SE Asian	14	87.85	89.88	+ 2.03
Other	11	83.29	84.39	+ 1.10
NZ European	10	92.07	91.93	- 0.14
OPP	4	75.07	86.22	+ 11.15

# Year 4: Ability

Group	N	Pre Mean	Post Mean	Difference	Average Progress +3.37
Well Below	106	62.87	68.19	+ 5.32	
Below	222	79.81	82.78	+ 2.97	
At	259	94.57	97.29	+ 2.72	
Above	14	116.34	113.08	- 3.26	

# Yr. 4 Reading Progress – Ability Levels

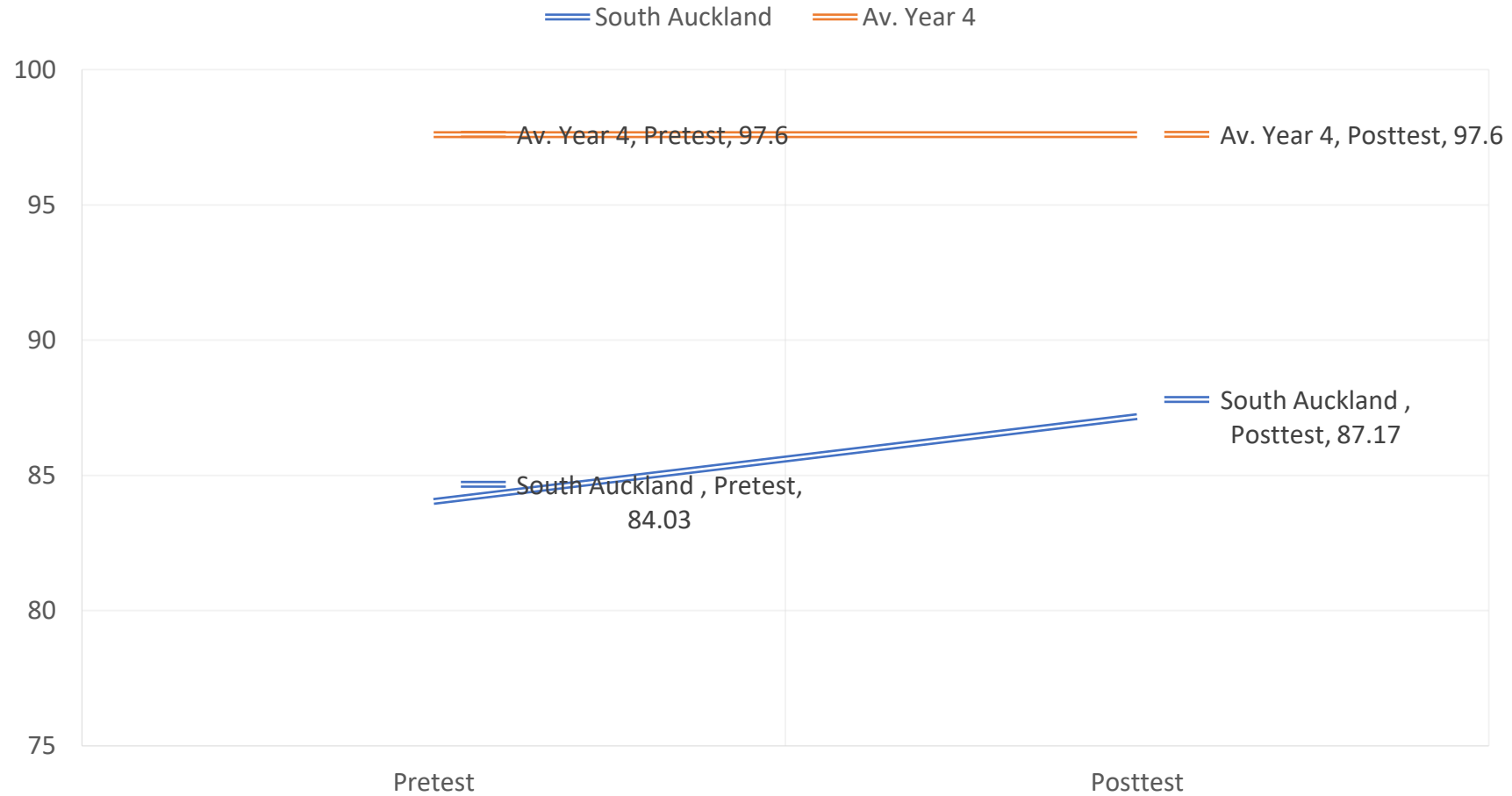




# Year 4: Subtests

Subtest	Pre Mean	Post Mean	Difference
Word Recognition	7.18	7.79	+ 0.61
Sentence Comp.	5.14	5.32	+ 0.18
Paragraph Comp.	9.17	6.84	- 2.33
Vocabulary	3.43	5.16	+ 1.73

# South Auckland Schools Year 4 & Average Year 4



# Overall Results: Reading Year 5

Year	N	Pre Mean SS	Post Mean SS	Difference	Average progress STAR Year 5 – 6
5	495	97.09	101.04	+ 3.95	+ 0.95 per month
<i>2017/2018</i>		<i>96.80</i>	<i>100.24</i>		
<i>2016/2017</i>		<i>96.50</i>	<i>99.17</i>		
<i>2015/2016</i>		<i>97.81</i>	<i>102.24</i>		
				<i>Greater than expected progress</i>	+ 2.37 over 2 ½ months
<b>Gender</b>					
Female	240	98.46	102.20	+ 3.74	
Male	255	95.80	99.94	+ 4.14	

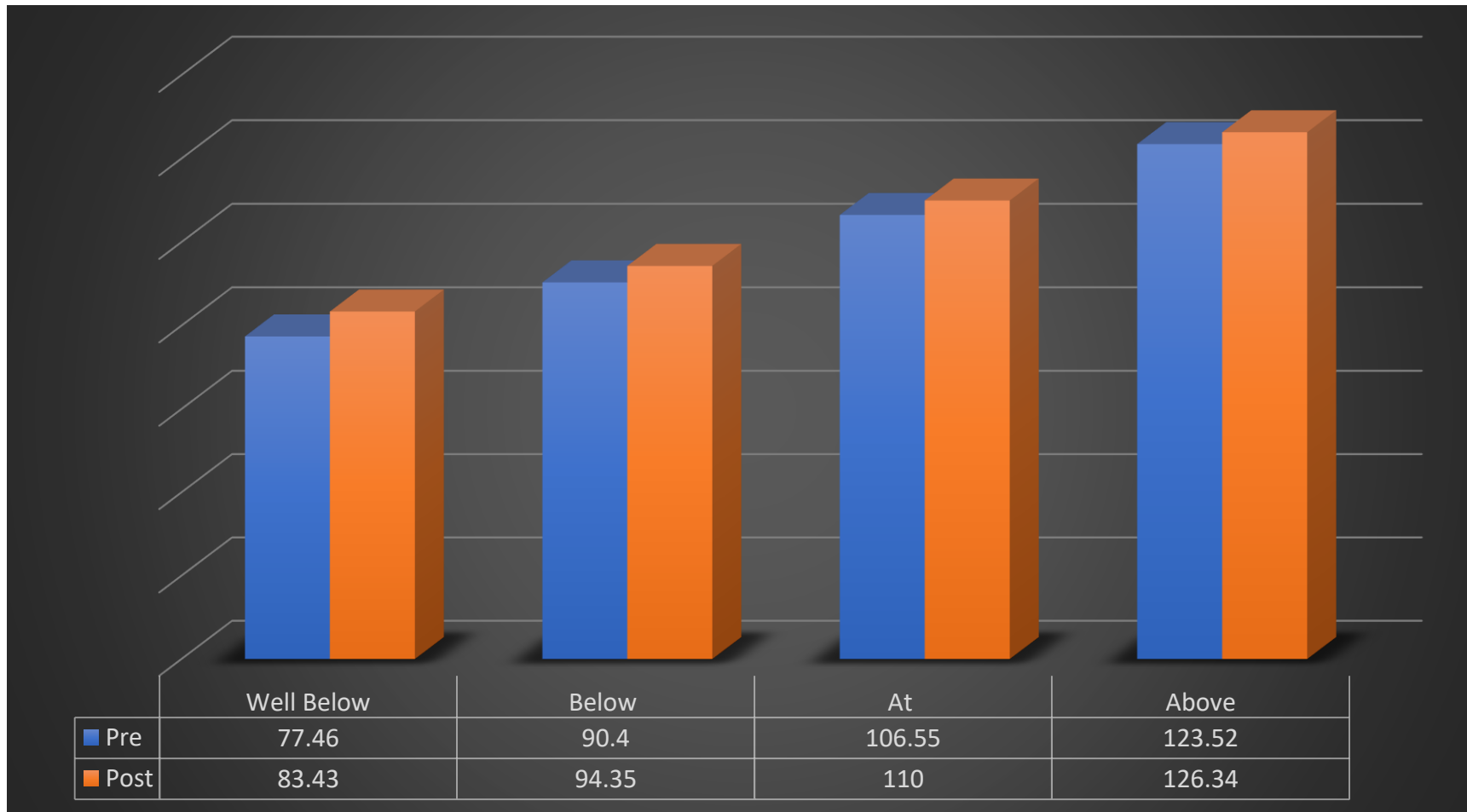
# Year 5 Ethnicity

	N	Pre Mean	Post Mean	Difference
NZ Māori	118	96.10	100.12	+ 4.02
Samoaan	151	96.33	99.99	+ 3.66
Tongan	85	97.37	100.95	+ 3.58
CI Māori	70	95.75	99.46	+ 3.71
Fijian	21	103.29	109.81	+ 6.52
Niuean	16	99.80	102.94	+ 3.14
Other SE Asian	10	98.45	103.28	+ 4.83
NZ European	8	103.47	111.73	+ 8.26
Indian	7	100.35	101.05	+ 0.70
OPP	5	103.78	110.68	+ 6.90
Other	4	98.75	104.50	+ 5.75

# Year 5: Ability

Group	N	Pre Mean	Post Mean	Difference	Average Progress +2.37
Well Below	63	77.46	83.43	+ 5.97	
Below	187	90.40	94.35	+ 3.95	
At	235	106.55	110.00	+ 3.45	
Above	10	123.52	126.34	+ 2.82	

# Yr. 5 Reading Progress – Ability Levels



# Year 5: Subtests

Subtest	Pre Mean	Post Mean	Difference
Word Recognition	7.87	8.19	+ 0.32
Sentence Comp.	5.75	6.16	+ 0.41
Paragraph Comp.	7.04	8.74	+ 1.70
Vocabulary	4.41	5.01	+ 0.60

# South Auckland Schools Year 5 & Average Year 5





# Overall Results: Reading Year 6

Year	N	Pre Mean SS	Post Mean SS	Difference	Average progress STAR Year 6 - 7
6 <i>2017/2108</i>	46	105.16 <i>106.98</i>	106.33 <i>107.55</i>	+ 1.17	+ 0.74 per month
					+ 1.85 over 2 ½ months
<b>Gender</b>					
Female	25	106.23	107.39	+ 1.16	
Male	21	103.90	105.08	+ 1.18	

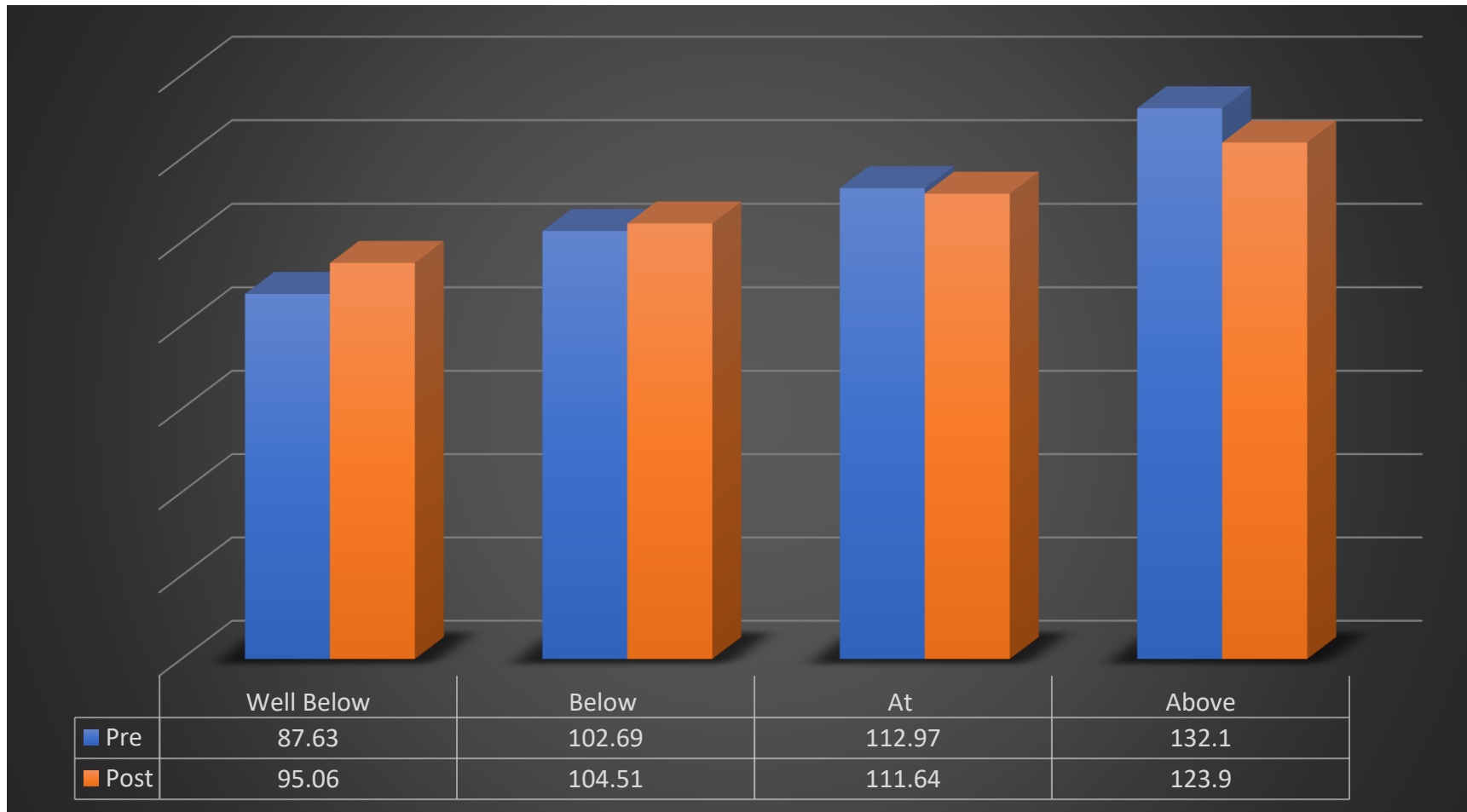
# Year 6 Ethnicity

	N	Pre Mean	Post Mean	Difference
NZ Māori	7	99.75	103.78	+ 4.03
Tongan	16	104.62	104.85	+ 0.23
Samoaan	15	107.56	107.63	+ 0.07
CI Māori	7	104.80	108.31	+ 3.51
Niuean	1	118.40	114.60	- 3.80

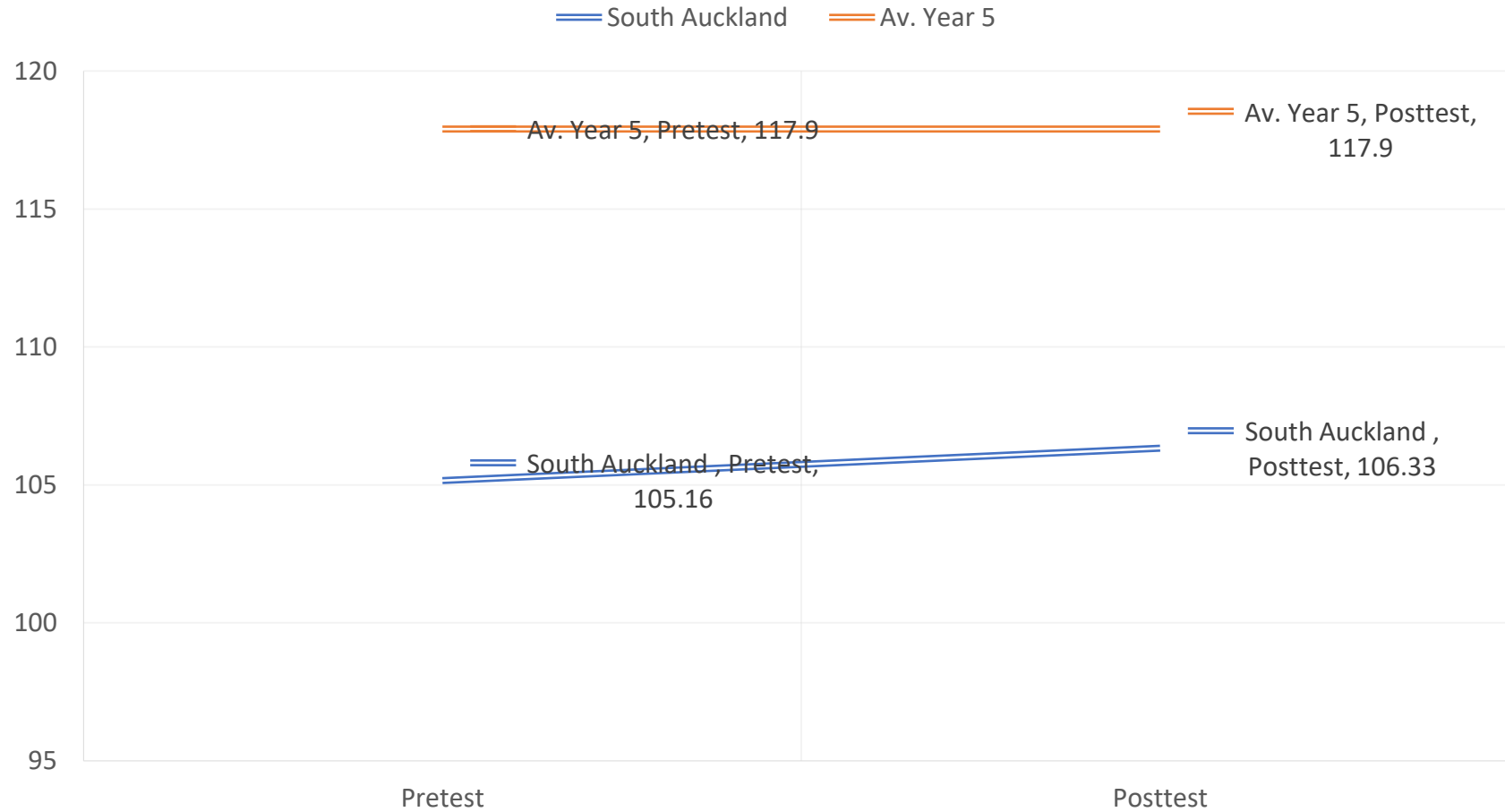
# Year 6: Ability

Group	N	Pre Mean	Post Mean	Difference	Average Progress +1.85
Well Below	6	87.63	95.06	+ 7.43	
Below	22	102.69	104.51	+ 1.82	
At	17	112.97	111.64	- 1.33	
Above	1	132.10	123.90	- 8.20	

# Yr. 6 Reading Progress – Ability Levels



# South Auckland Schools Year 6 & Average Year 6



# Results Summary & Conclusions

## Year 3

- mean scale scores at post test for the Overall, Female, Male, Below, and At groups all increased; the Male group made slightly greater gains than the Female group
- most Ethnicity groups improved at post test; the Indian, Fijian, and Other SE Asian groups made greater than expected progress
- the Below and At ability groups gained at post test; the Well Below group made greater than expected progress however the Above group dropped – similar pattern to previous years
- all subtest mean scores improved at post test

## Year 4

- mean scale scores at post test for the Overall, Male, Below, and At groups all increased; the Female group made greater than expected progress
- 5 Ethnicity groups made greater than expected progress; the NZ European group dropped slightly, all other groups made gains
- the Below and At ability groups gained at post test; the Well Below group made greater than expected progress however the Above group dropped
- gains were made in 3 subtests; Paragraph Comprehension mean post test score dropped – similar pattern to last year - the Below and At groups dropped the most

## Year 5

- the Overall, Female and Male groups all made greater than expected progress
- all Ethnicity groups made greater than expected progress except for the Indian group (small sample size) however their mean scale score did improve at post test
- All Ability groups made greater than expected progress
- all mean subtest scores improved



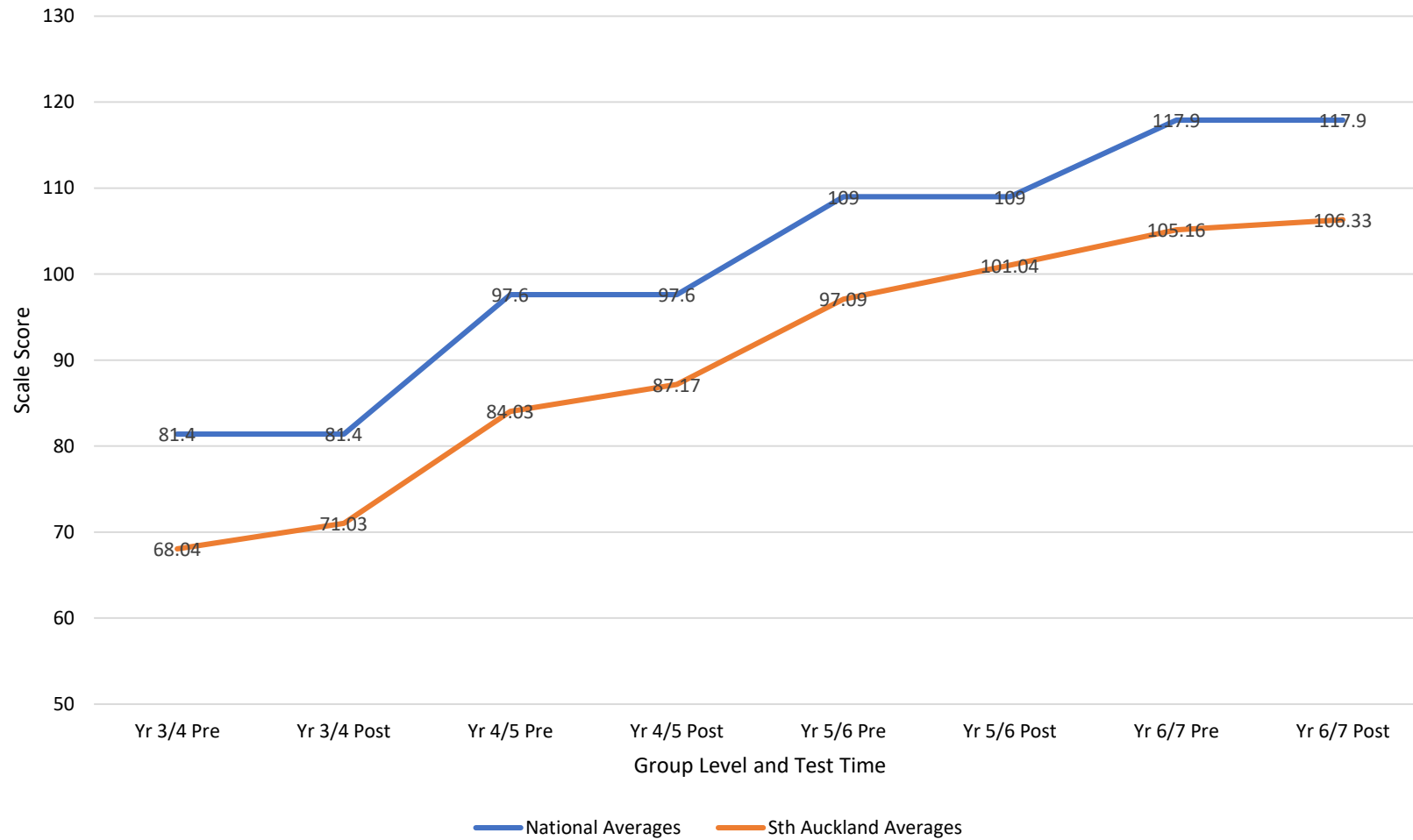
## Year 6

- the Overall , Female and Male groups improved at post test
- the NZ Māori and CI Māori groups made greater than expected progress; the Tongan and Samoans groups gained at post test; the Niuean group dropped – there was only 1 student in the group
- the Well Below group made greater than expected progress; the Below group gained; however the At and Above groups dropped - only 1 student in the Above group
- subtest results are not reported as STAR 7 – 8 tests have 6 subtests and so a direct comparison with the pretest (STAR 5 – 6 C) cannot be made

## Student Progress v National Averages – South Auckland

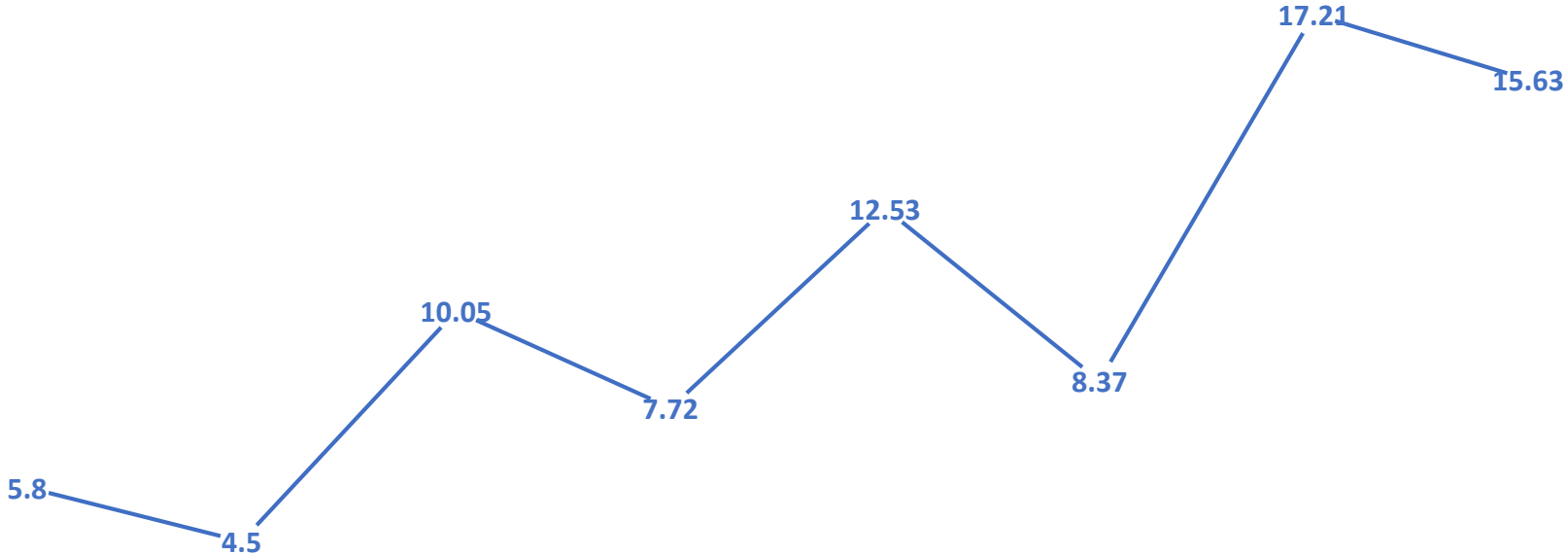
	Yr 3/4 Pre	Yr 3/4 Post	Yr 4/5 Pre	Yr 4/5 Post	Yr 5/6 Pre	Yr 5/6 Post	Yr 6/7 Pre	Yr 6/7 Post
National Averages	81.4	81.4	97.6	97.6	109	109	117.9	117.9
South Auckland Averages	68.04	71.03	84.03	87.17	97.09	101.04	105.16	106.33
Difference	13.36	10.37	13.57	10.43	11.91	7.96	12.74	11.57
Expected Prog/Mth	2.3	2.3	1.35	1.35	0.95	0.95	0.74	0.74
Average Numbers 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	Yr 6/7 Pre	Yr 6/7 Post
Months Behind Ave	5.80	4.50	10.05	7.72	12.53	8.37	17.21	15.63

### Student Progress v National Averages



# AVERAGE NUMBER OF MONTHS BEHIND

Months behind - average



Yr 3/4 Pre    Yr 3/4 Post    Yr 4/5 Pre    Yr 4/5 Post    Yr 5/6 Pre    Yr 5/6 Post    Yr 6/7 Pre    Yr 6/7 Post

# 3 Year Study: South Auckland

- 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 138 students who began the summer reading programme as Year 3 students in 2016 and who have participated for 3 consecutive summers
- students from 5 schools: Dawson, Flat Bush, Mangere Central, Riverina & Southern Cross
- 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	Post Mean SS Feb. 2019
3 – 6 <i>2015-2018</i>	122	76.90 <i>69.67</i>	104.08 <i>102.35</i>
<b>Gender</b>			
Female	63	79.36	105.40
Male	59	74.27	102.67

# 3 Year Data: South Auckland

	Year 3 / 4 Pre 2016	Year 5/6 Post 2019
<b>National Averages</b>	81.4	109.0
<b>3 Year Cohort average (N=122)</b>	76.90	104.08
<b>Difference</b>	4.50	4.92
<b>Expected progress per month</b>	2.3	0.95
<b>Average months behind</b>	1.95	5.17

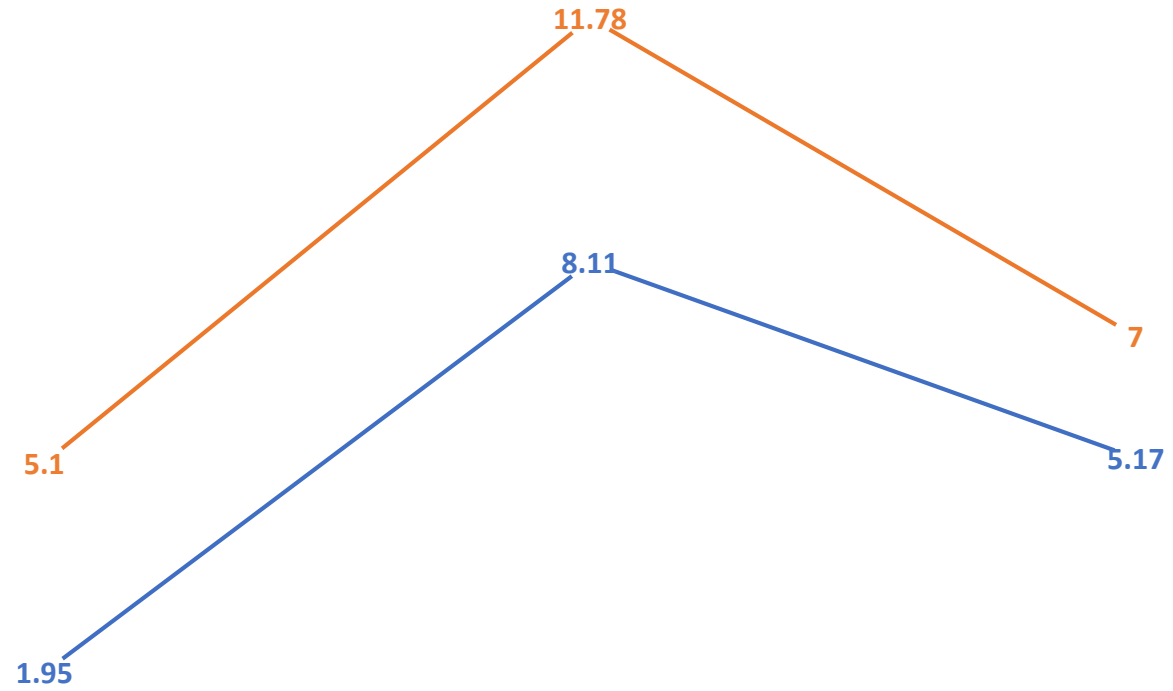
# 3 Year Study

- when the Nov. 2016 mean scale scores for the students who participated in all 3 years of the programme are compared with the mean scores for all the Year 3 students from Nov 2016, the 3 Year cohort were 1.03 months ahead of the other students
- a similar comparison was made between the 3 Year cohort and all Year 6 students participating in the programme in Feb 2019; at this point the 3 Year cohort were 3.2 months ahead of the other Year 6 students
- this suggests that the cumulative effect of the summer reading programme together with school and home is having a positive impact on student achievement



# AVERAGE MONTHS BEHIND: 3 YEAR COHORT

Months behind - average



	Nov. 2016	Nov. 2017	Feb. 2019
3 Year SA 2016-2019	1.95	8.11	5.17
3 Year SA 2015-2018	5.1	11.78	7

# Discussion for 2019/2020

- Feedback/questions...