

Summer Learning Programme 2017/2018

South Auckland

The Programme

- 10 primary schools – 1264 students (more students received books however there is pre and post data for 1264)
 - Year 3 = 375
 - Year 4 = 339
 - Year 5 = 428
 - Year 6 = 122
 - Female = 608 Male = 656
- 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

2nd 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	375	67.58	71.32	+ 3.74	+ 2.3 per month
<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
Gender					
Female	170	69.88	73.56	+ 3.68	
Male	205	65.67	69.47	+ 3.80	

Year 3 Ethnicity

	N	Pre Mean	Post Mean	Difference
Samoan	136	69.53	73.33	+ 3.80
Tongan	73	69.03	72.80	+ 3.77
NZ Maori	71	64.85	68.17	+ 3.32
CIM	49	64.23	67.55	+ 3.32
Niuean	11	64.67	68.57	+ 3.90
NZ European	10	74.69	79.78	+ 5.09
Asian	8	76.06	78.88	+ 2.82
Indian	6	59.06	68.75	+ 9.69
Fijian	2	56.50	60.75	+ 4.25
OPP	3	64.20	62.96	- 1.24
Other	6	61.51	66.40	+ 4.89

Ability

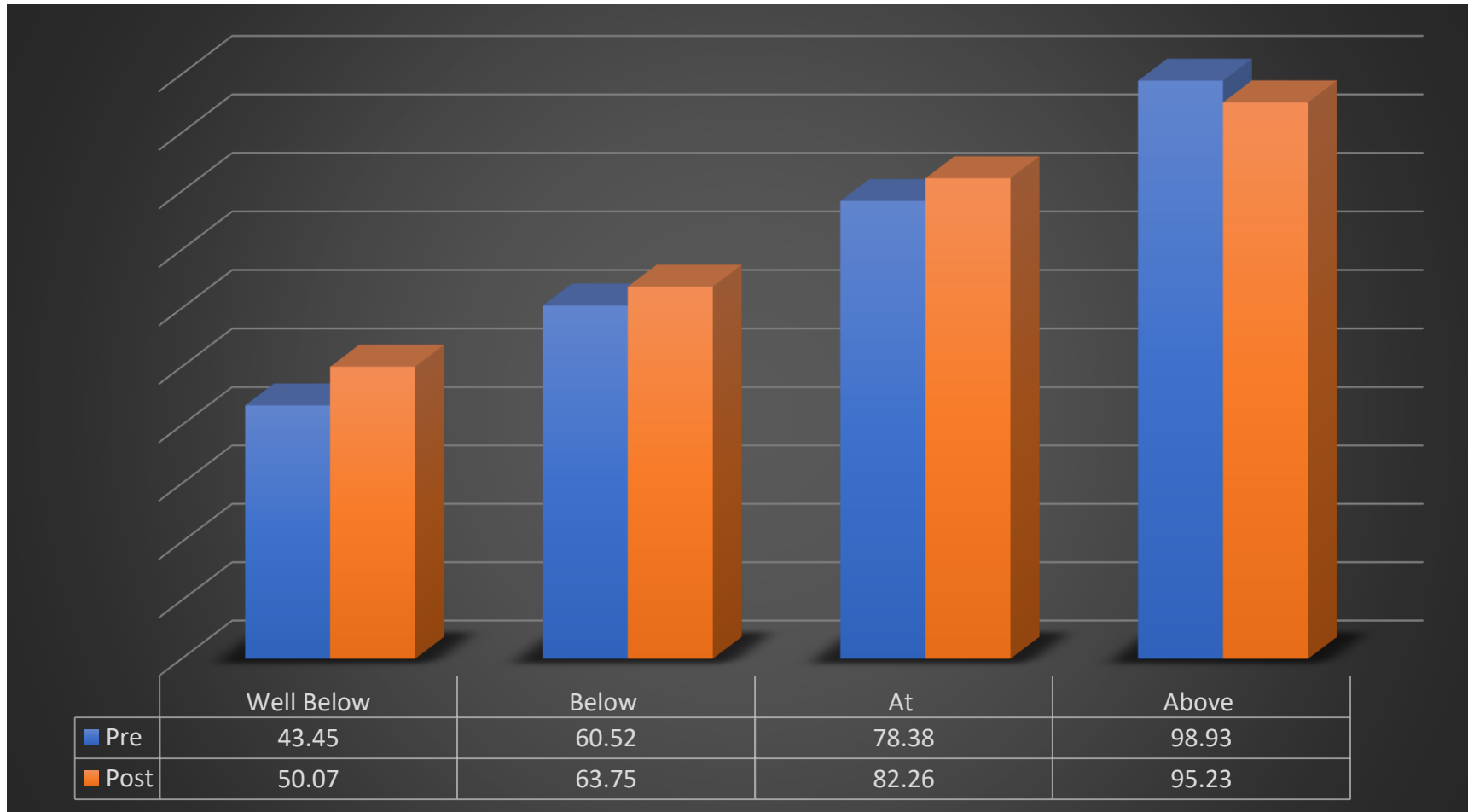
- Ability levels based on Pre-test stanines:

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	51	43.45	50.07	+ 6.62	<i>Greater than expected progress</i>
Below	142	60.52	63.75	+ 3.23	
At	169	78.38	82.26	+ 3.88	
Above	13	98.93	95.23	- 3.70	

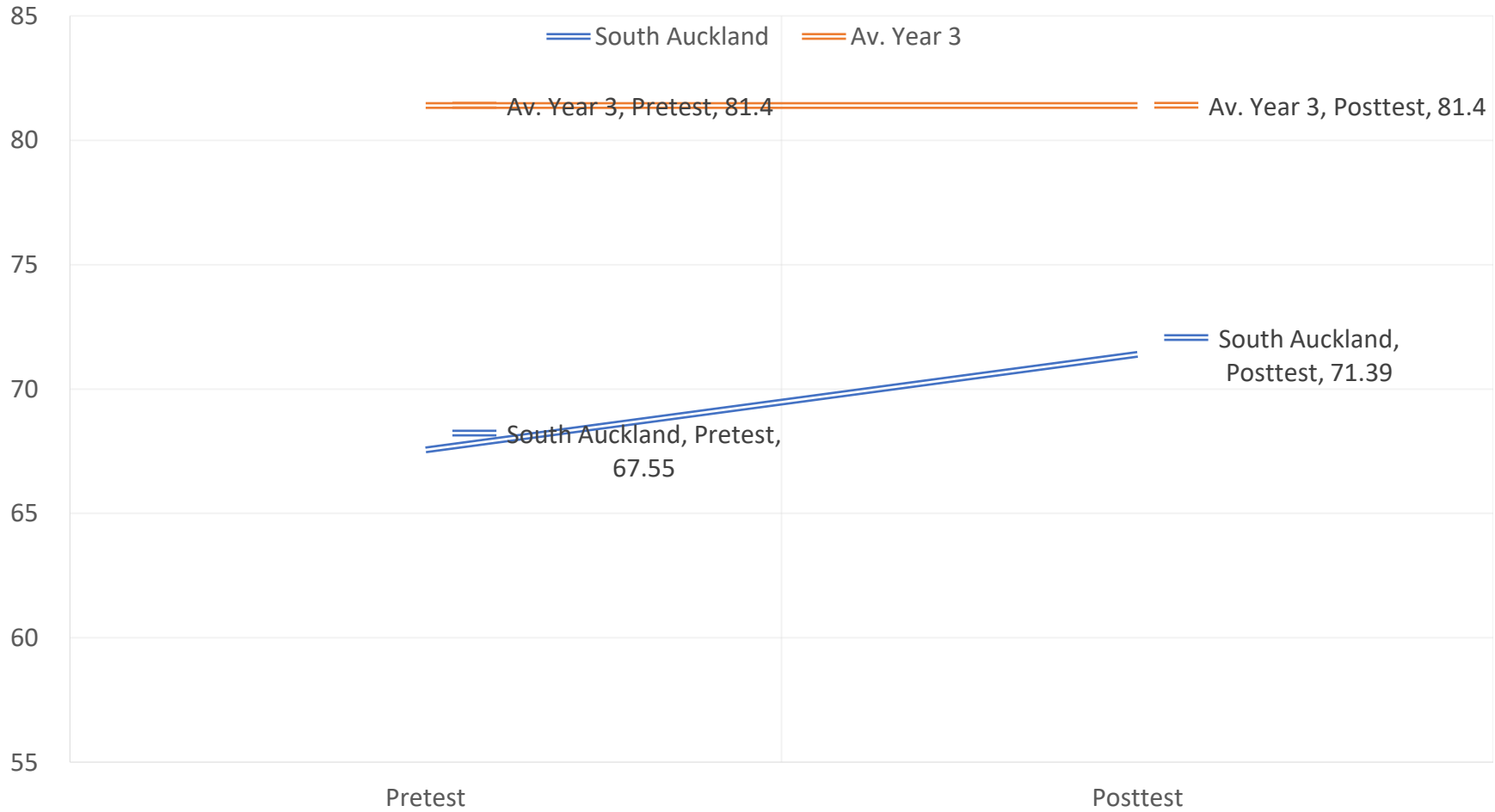
Yr. 3 Reading Progress – Ability Levels



Year 3: Subtests

Subtest	Pre Mean	Post Mean	Difference
Word Recognition	6.83	7.18	+ 0.35
Sentence Comp.	5.10	5.70	+ 0.60
Paragraph Comp.	6.65	7.38	+ 0.73
Vocabulary	4.03	4.77	+ 0.74

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	339	84.93	89.46	+ 4.53	+ 1.35 per month
<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
Gender					
Female	161	86.49	90.82	+ 4.33	
Male	178	83.52	88.24	+ 4.72	

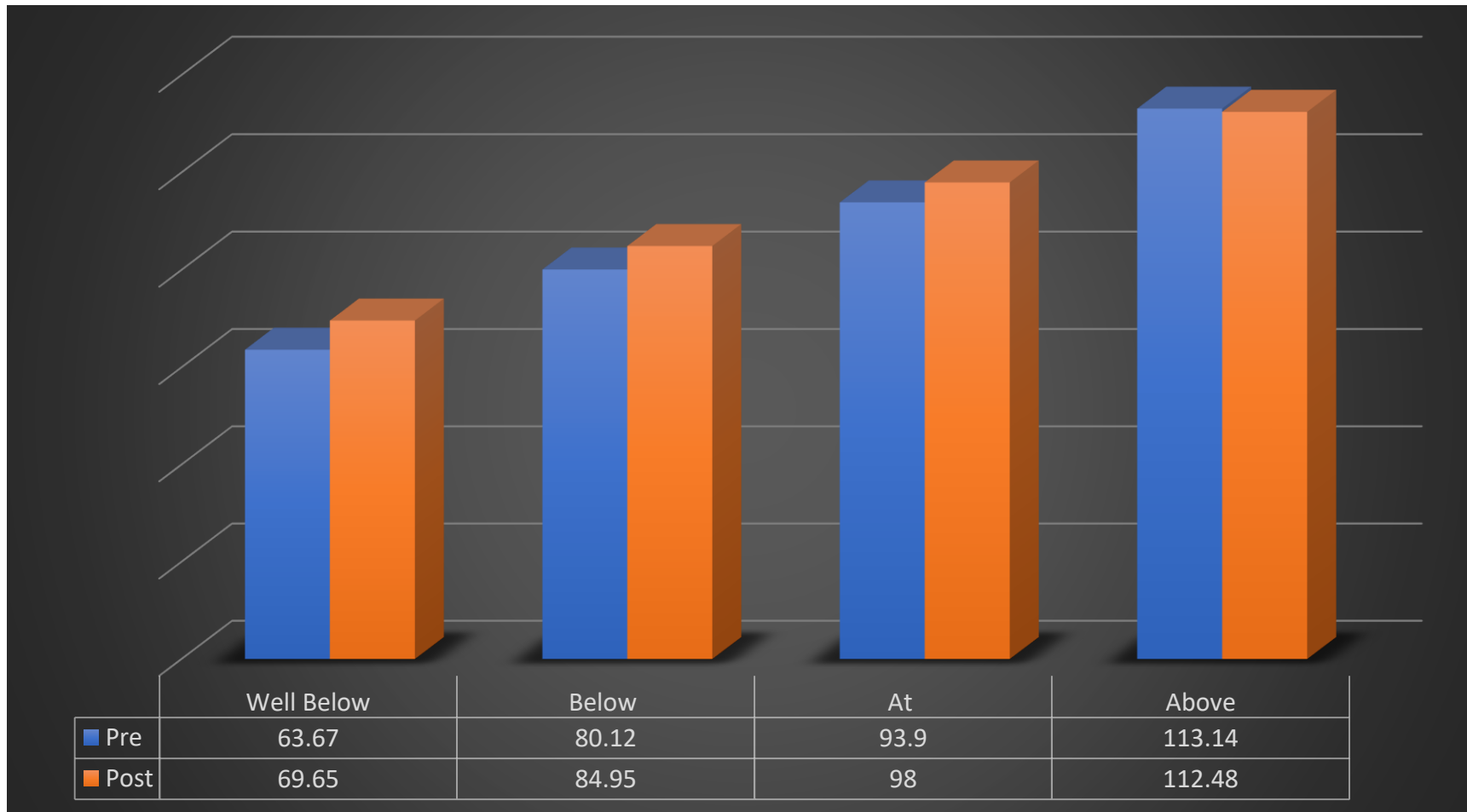
Year 4 Ethnicity

	N	Pre Mean	Post Mean	Difference
Samoan	112	85.45	90.86	+ 5.41
NZ Māori	76	82.44	87.13	+ 4.69
Tongan	62	84.05	88.77	+ 4.72
CIM	50	86.01	89.10	+ 3.09
Niuean	11	81.97	85.10	+ 3.13
NZ European	7	93.72	99.91	+ 6.19
Other	6	90.96	96.51	+ 5.55
Asian	5	83.72	81.62	- 2.10
Fijian	5	90.20	96.30	+ 6.10
Indian	3	91.36	89.90	- 1.46
OPP	2	98.10	99.05	+ 0.95

Year 4: Ability

Group	N	Pre Mean	Post Mean	Difference	Average Progress +3.37
Well Below	44	63.67	69.65	+ 5.98	<i>Greater than expected progress</i>
Below	134	80.12	84.95	+ 4.83	
At	154	93.90	98.00	+ 4.10	
Above	7	113.14	112.48	- 0.66	

Yr. 4 Reading Progress – Ability Levels

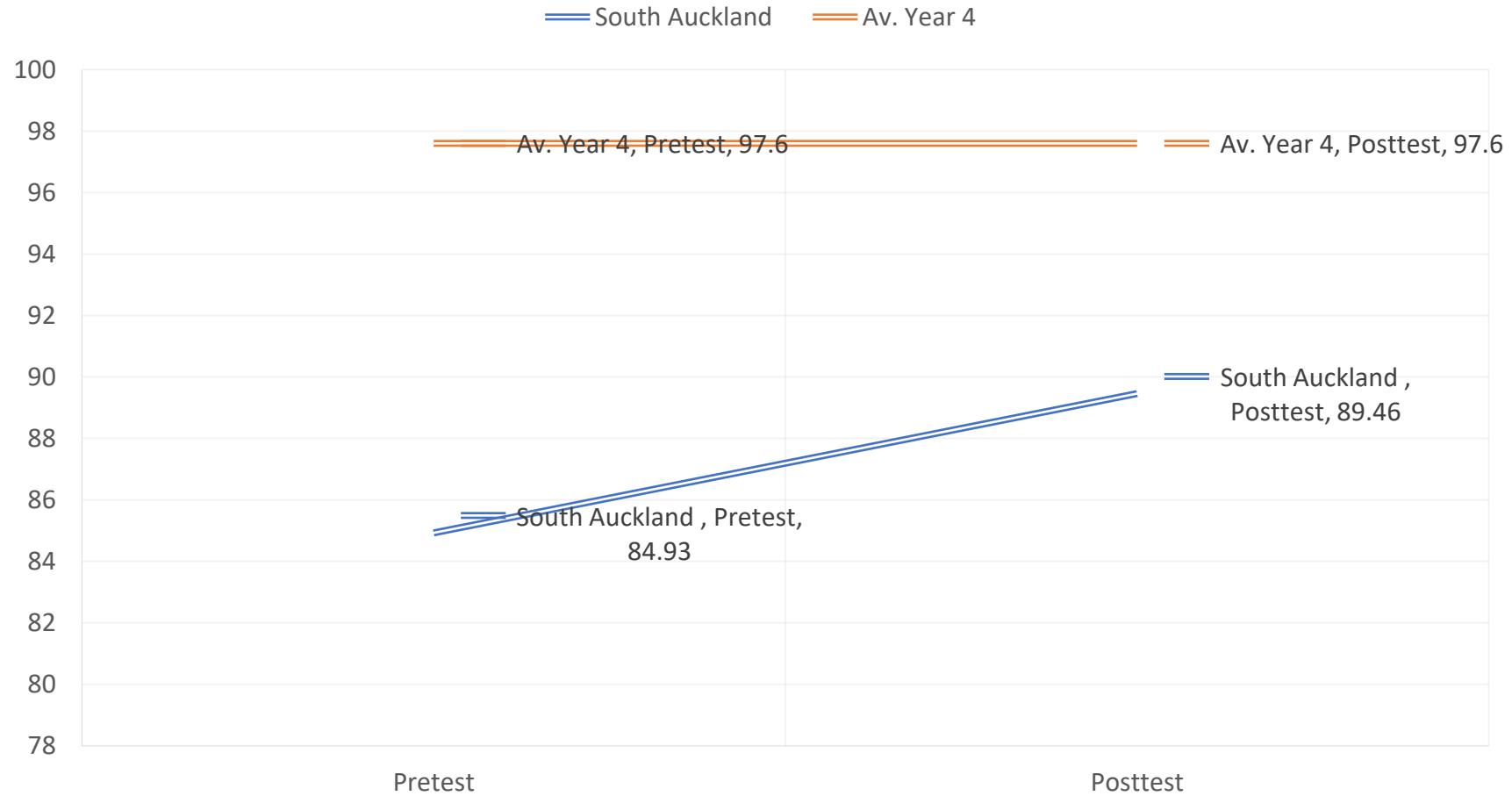


Year 4: Subtests

Subtest	Pre Mean	Post Mean	Difference
Word Recognition	7.59	8.36	+ 0.77
Sentence Comp.	5.12	5.44	+ 0.32
Paragraph Comp.	9.60	7.12	- 2.48
Vocabulary	3.34	5.70	+ 2.36

large mean scale score drop in Paragraph Comprehension at post test for the “Below” and “At” groups

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	428	96.80	100.24	+ 3.44	+ 0.95 per month
<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
Gender					
Female	215	99.12	102.55	+ 3.43	
Male	213	94.45	97.91	+ 3.46	

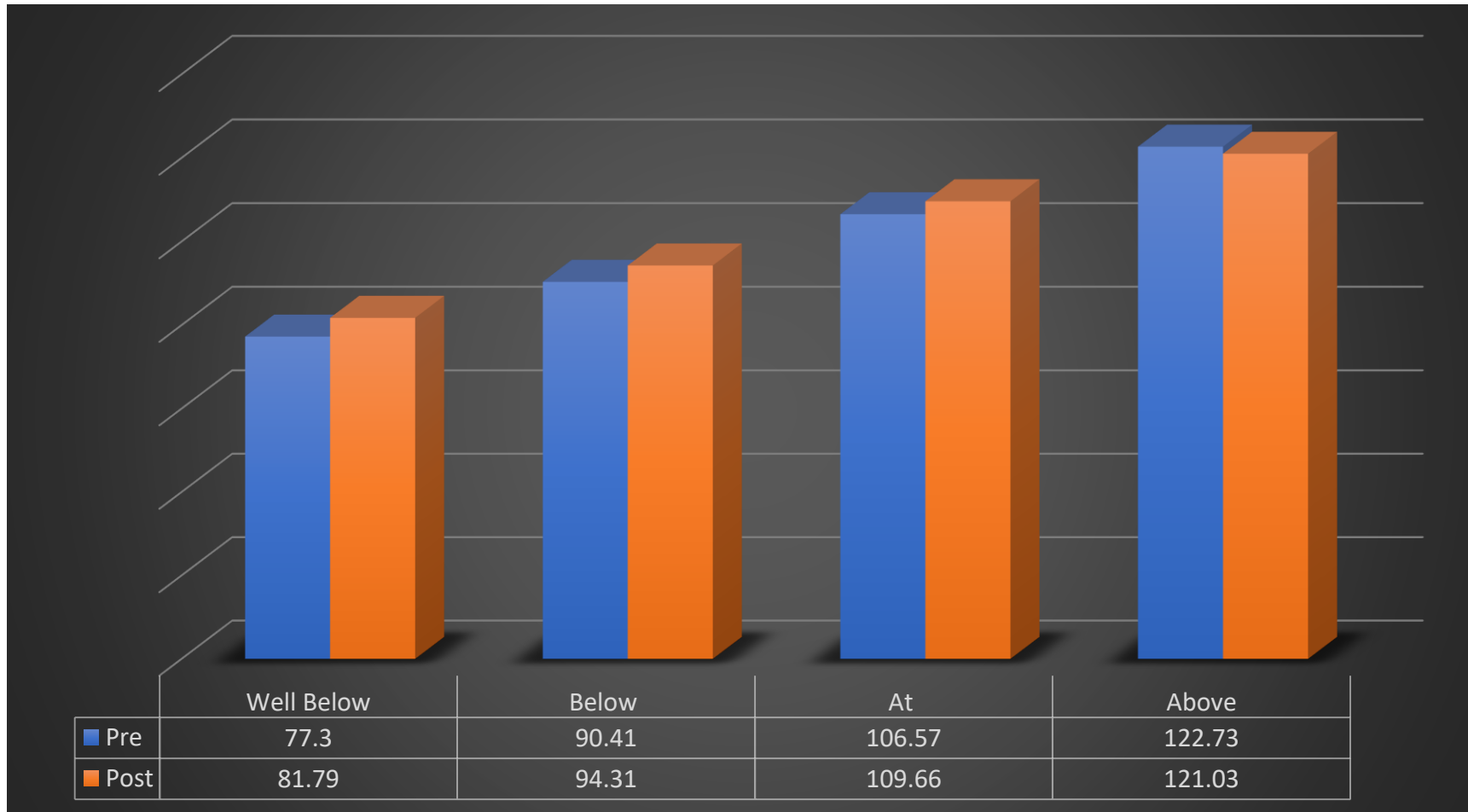
Year 5 Ethnicity

	N	Pre Mean	Post Mean	Difference
Samoan	137	97.70	100.68	+ 2.98
NZ Māori	110	96.28	99.75	+ 3.47
Tongan	70	94.92	98.51	+ 3.59
CI Maori	58	96.03	99.16	+ 3.13
NZ European	12	105.79	113.23	+ 7.44
Niuean	9	95.54	99.88	+ 4.34
Indian	9	94.81	98.92	+ 4.11
OPP	8	92.86	94.56	+ 1.70
Asian	7	104.47	106.88	+ 2.41
Other	7	97.80	104.61	+ 6.81
Fijian	1	97.10	106.00	+ 8.90

Year 5: Ability

Group	N	Pre Mean	Post Mean	Difference	Average Progress +2.37
Well Below	48	77.30	81.79	+ 4.49	<i>Greater than expected progress</i>
Below	185	90.41	94.31	+ 3.90	
At	182	106.57	109.66	+ 3.09	
Above	13	122.73	121.03	- 1.70	

Yr. 5 Reading Progress – Ability Levels



Year 5: Subtests

Subtest	Pre Mean	Post Mean	Difference
Word Recognition	7.71	8.01	+ 0.30
Sentence Comp.	5.38	5.84	+ 0.46
Paragraph Comp.	7.18	8.72	+ 1.54
Vocabulary	4.39	4.82	+ 0.43

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	122	106.98	107.55	+ 0.57	+ 0.74 per month
					+ 1.85 over 2 ½ months
Gender					
Female	62	108.91	109.57	+ 0.66	
Male	60	104.99	105.46	+ 0.47	

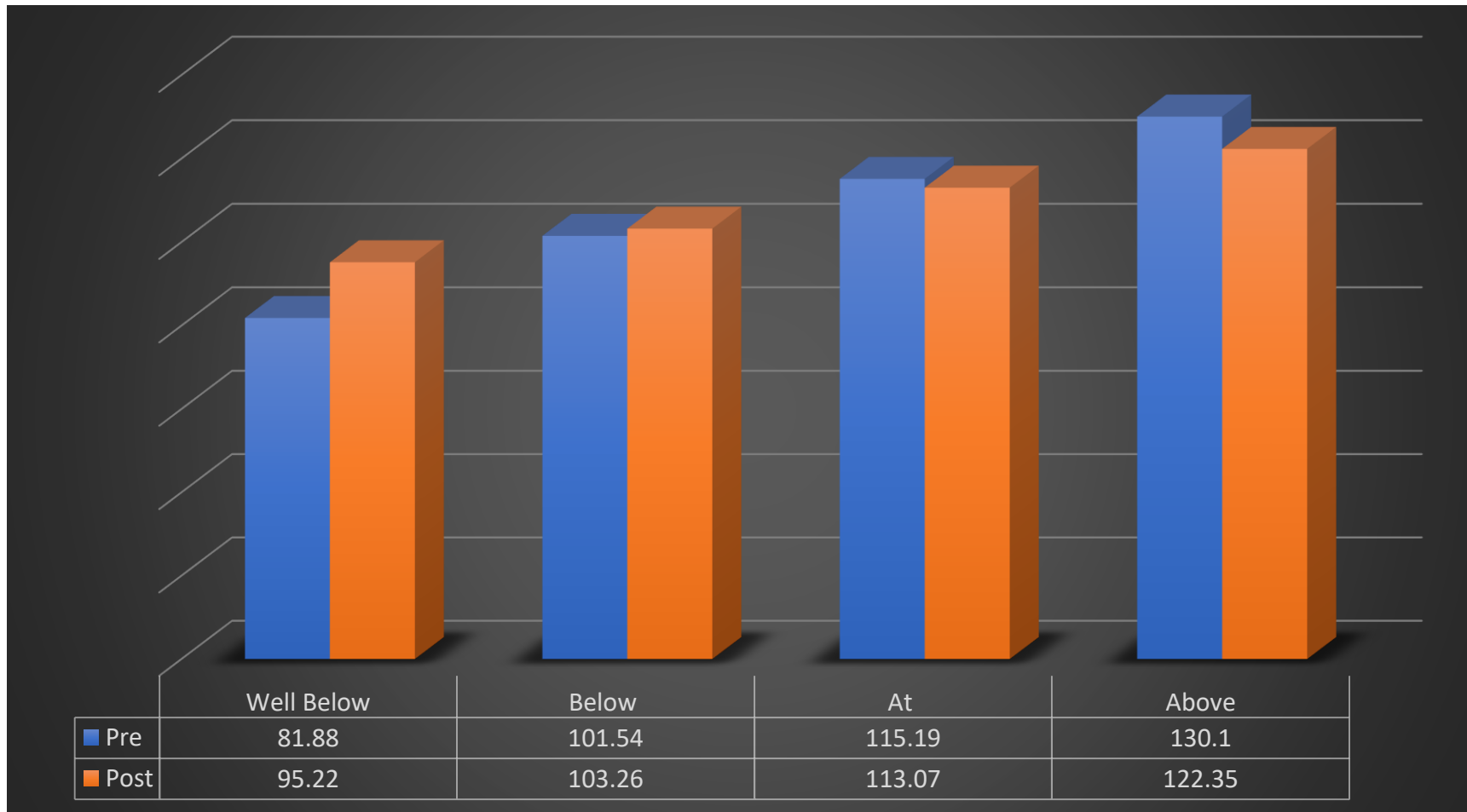
Year 6 Ethnicity

	N	Pre Mean	Post Mean	Difference
Samoan	34	106.81	106.81	
NZ Māori	32	106.81	107.04	+ 0.23
Tongan	18	105.69	107.55	+ 1.86
CI Maori	17	106.50	106.61	+ 0.11
Asian	5	118.24	118.82	+ 0.58
NZ European	4	108.90	106.17	- 2.73
Niuean	4	99.97	110.47	+ 10.50
Indian	4	104.20	105.12	+ 0.92
OPP	4	111.52	108.62	- 2.90

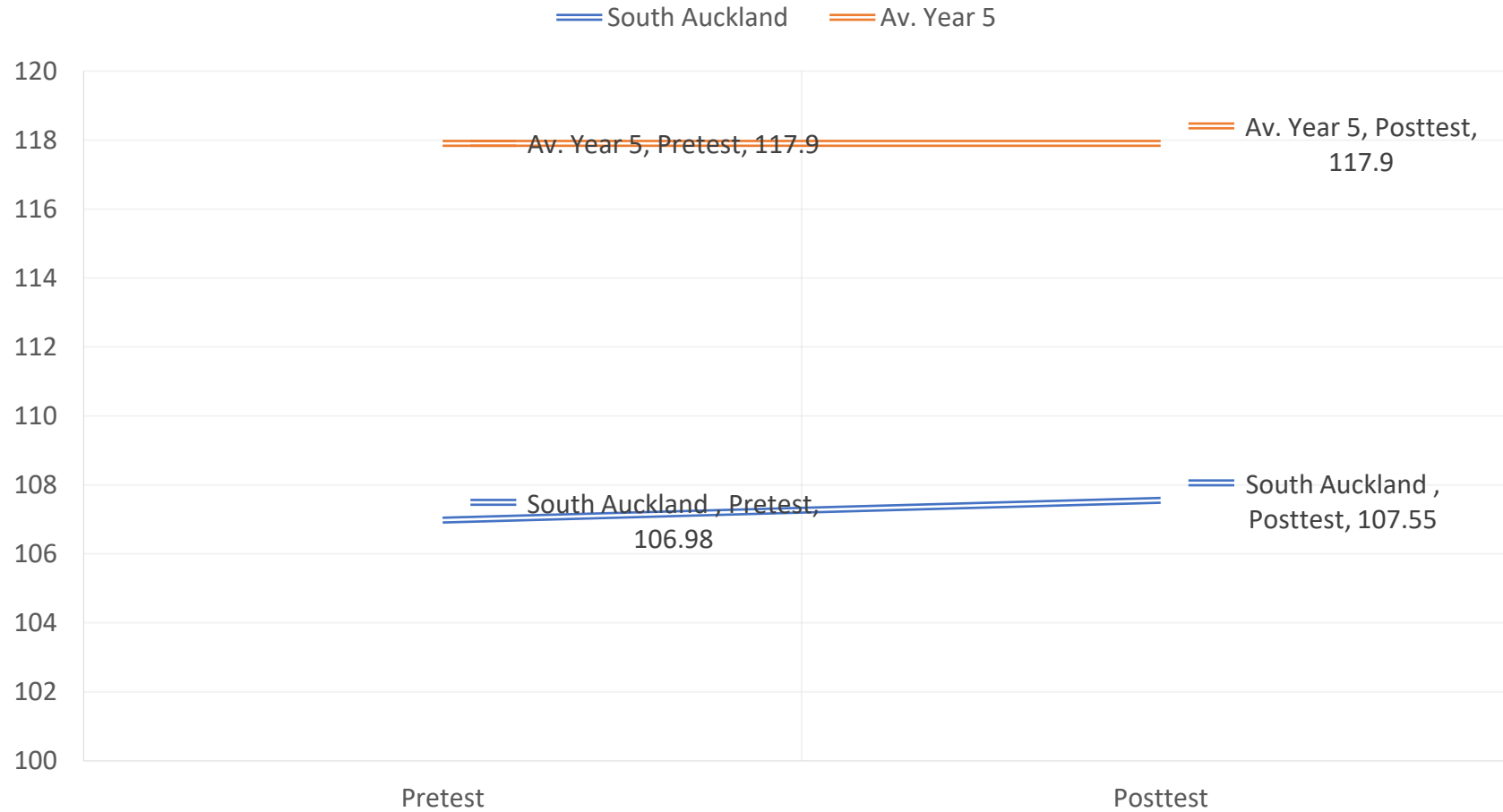
Year 6: Ability

Group	N	Pre Mean	Post Mean	Difference	Average Progress +1.85
Well Below	8	81.88	95.22	+ 13.34	<i>Greater than expected progress</i>
Below	56	101.54	103.26	+ 1.72	
At	56	115.19	113.07	- 2.12	
Above	2	130.10	122.35	- 7.75	

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, Male, Female, Below, and At groups all increased
- most Ethnicity groups improved at post test; the Indian group made greater than expected progress while the “Other Pacific Peoples” group dropped – small sample with only 3 students in the group
- 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

- greater than expected progress was made by the Overall, Female, Male, Well Below, Below, and At groups
- the Above group dropped slightly at post test
- 7 Ethnicity groups made greater than expected progress; the CI Maori and Other Pacific Peoples groups both gained; the Asian and Indian groups dropped however both of these were small groups
- gains were made in 3 subtests; Paragraph Comprehension mean post test score dropped – data indicates that there were some large drops within the Below and At groups for this subtest

Year 5

- the Overall, Female and Male groups all made greater than expected progress
- all Ethnicity groups made greater than expected progress except for Other Pacific Peoples however their mean scale score did improve at post test
- the Well Below, Below, and At groups made greater than expected progress; the Above group dropped
- all mean subtest scores improved

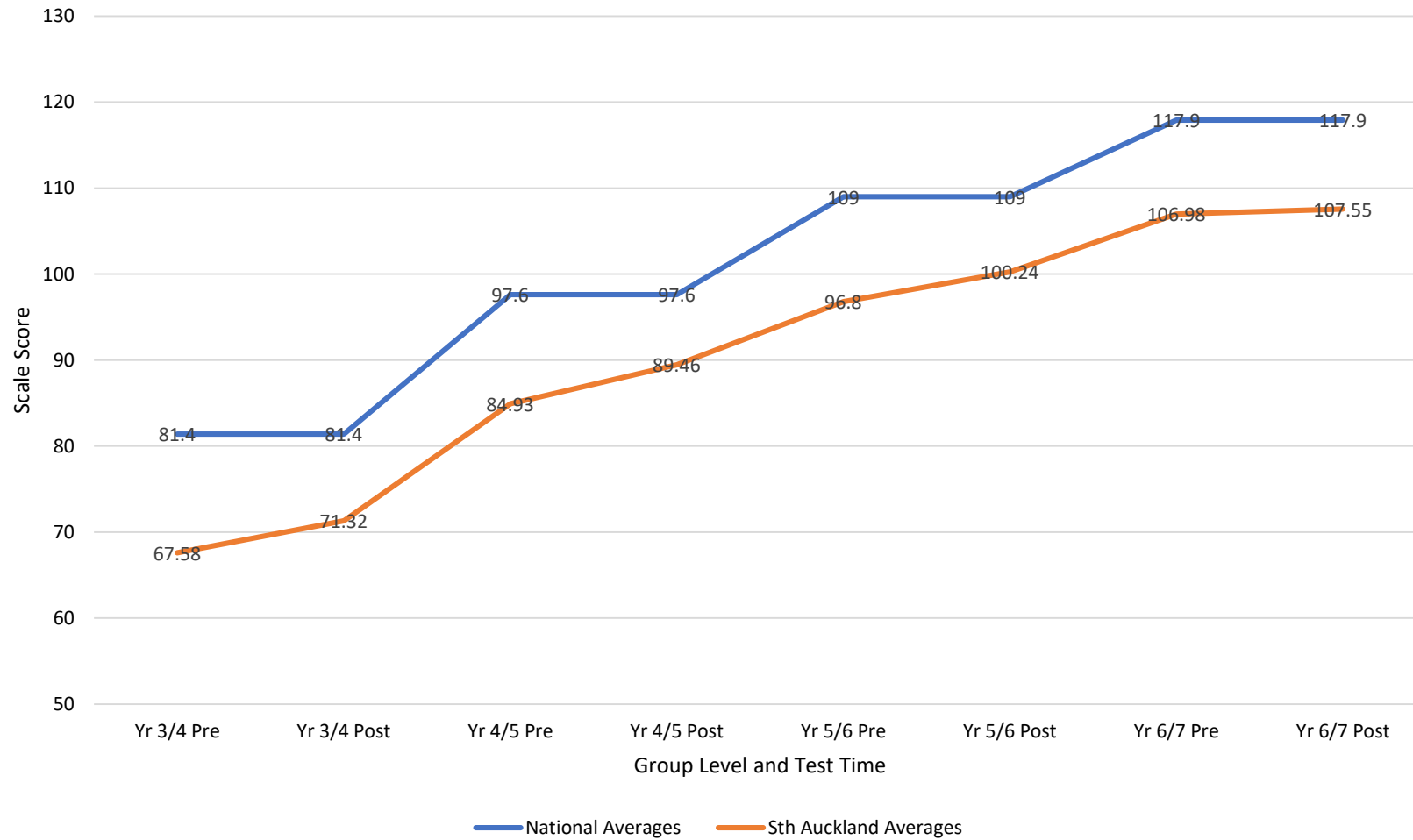
Year 6

- the Overall , Female and Male groups improved at post test
- 6 Ethnicity groups gained; the Tongan and Niuean groups made greater than expected progress; the mean scale scores for the Samoan group remained the same at pre and post test; the NZ European and Other Pacific Peoples groups dropped – there were only 4 students in each group
- the Well Below group made greater than expected progress; the Below group gained; however the At and Above groups dropped – 5 students in these groups dropped between 10 and 20 points in their post test
- 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

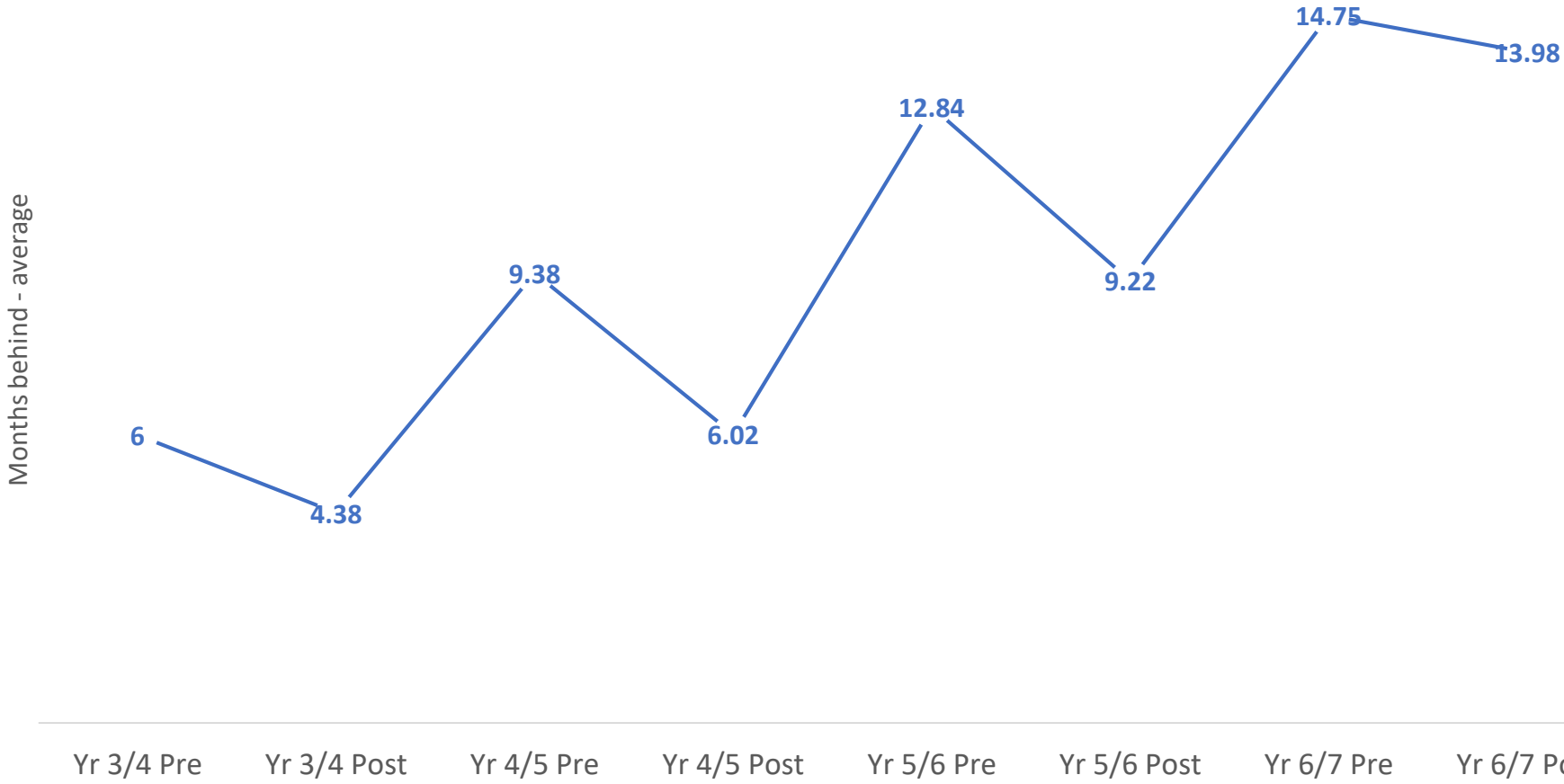
Student Progress v National Averages – South Auckland

	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	67.58	71.32	84.93	89.46	96.80	100.24	106.98	107.55
Difference	13.82	10.08	12.67	8.14	12.20	8.76	10.92	10.35
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	6.00	4.38	9.38	6.02	12.84	9.22	14.75	13.98

Student Progress v National Averages



AVERAGE NUMBER OF MONTHS BEHIND



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 144 students who began the summer reading programme as Year 3 students in 2015 and who have participated for 3 consecutive summers
- students from 4 schools: Flat Bush, Finlayson Park, Koru & Southern Cross
- compared mean scale scores at point 1 (Nov. 2015) and at point 6 (Feb 2018) against average progress for Year 4 (Nov. 2015) and Year 6 (Feb 2018)
- equated this data to average months behind (estimation)

Overall Results: 3 Year Study

Years	N	Pre Mean SS Nov. 2015	Post Mean SS Feb. 2018
3 – 6	144	69.67	102.35
Gender			
Female	76	72.60	104.71
Male	68	66.40	99.72

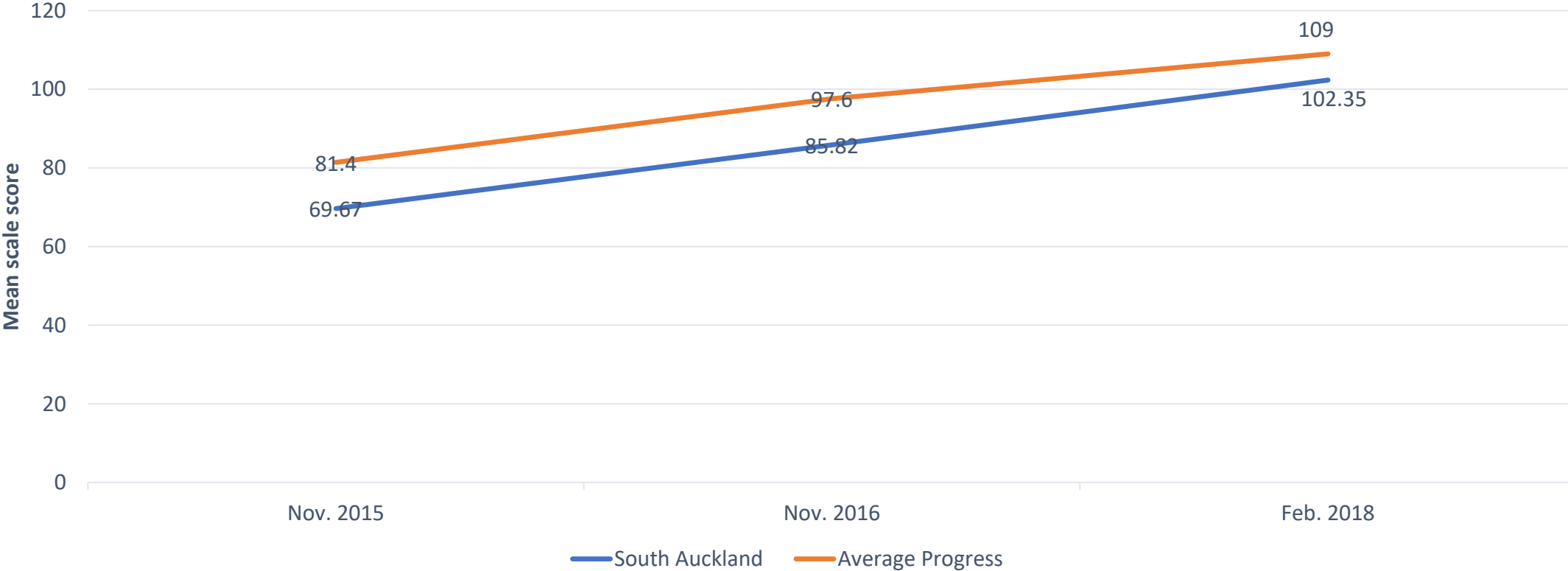
3 Year Data: South Auckland

	Year 3 / 4 Pre 2015	Year 5/6 Post 2018
National Averages	81.4	109.0
3 Year Cohort average (N=144)	69.67	102.35
Difference	11.73	6.65
Expected progress per month	2.3	0.95
Average months behind	5.1	7.0

3 Year Study

- when the Nov. 2015 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 2015, the 3 Year cohort were 0.99 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 2018; at this point the 3 Year cohort were 2.22 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

South Auckland 3 Year Cohort v Average Progress



AVERAGE MONTHS BEHIND: 3 YEAR COHORT

Months behind - average

5.1

11.78

7

Nov. 2015

Nov. 2016

Feb. 2018

