

STUDENT OUTCOMES IN STANDARDISED LITERACY AND NUMERACY TESTING 2017

National Assessment Programme Literacy and Numeracy (NAPLAN)

In 2017, 52 Year 3 students, 51 Year 5 students, 75 Year 7 students and 78 Year 9 students participated in the National Assessment Program - Literacy and Numeracy. The students presented for English language and literacy tests in Reading, Writing, Spelling, Grammar and Punctuation and Numeracy. The test results are given in skill bands indicating levels of achievement. Macarthur's results are above or substantially above State average in all domains for Years 5, 7, 9 with the exception of spelling for Year 5. Please refer to further details on the MySchool website <http://www.myschool.edu.au>

2017 Year 3 NAPLAN Results

In Year 3, one student was absent and no students were exempt or withdrawn.

State Average Comparison

The table below shows that the School's Year 3 mean results were above the State mean for all domains.

	Reading	Writing	Spelling	Grammar and Punctuation	Numeracy	Data, Measurement, Space, Geometry	Number, Patterns & Algebra
State Mean	436.5	421.2	426.6	444.3	416.1	412.1	418.4
School Mean	443.9	452.6	447.6	481.5	429.5	418.2	437.5

National Benchmark

The majority of students achieved well above the National Minimum Band 2 Standard for all tests (see table 1 on the following page). There was an improvement in the number of students above the benchmark for Numbers, Patterns and Algebra compared to 2016. There was, however, a 12% decline in the percentage of students above the minimum benchmark for Reading. This will be monitored in 2018.

Table 1

Year 3 2017 NAPLAN Test	% Macarthur students below national minimum standards	% Macarthur students achieving <i>above</i> National Band 2 Bench mark	% Students achieving top two bands	
			Macarthur	State
Reading	5.9	82.3	56.8	51
Writing	0	98	72.5	53.2
Spelling	0	94.1	66.7	52.7
Grammar and Punctuation	2	94.1	68.7	62
Numeracy	2	96	51	43.3
Data, Measurement, Space, Geometry	2	86.2	41.2	37
Number, Patterns, Algebra	2	94.1	49	43.7

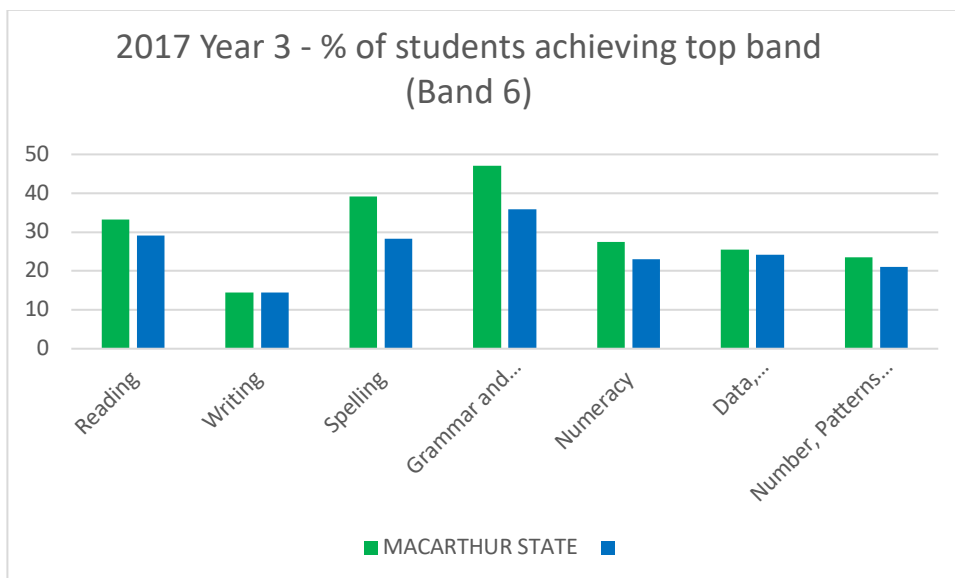
Top Band (Band 6)

The percentage of Year 3 Macarthur student achieving Band 6 (shown in Table 2 and Graph 1) exceeded the State in 2017 but the percentage of students achieving the top band was not as high as 2016 for Reading, Writing, and all Numeracy skills. This is an area of concern and will be examined by the Head of School.

Table 2

Year 3 2017 NAPLAN Test	% Students achieving in the highest band (Band 6)	
	Macarthur	State
Reading	33.3	29.2
Writing	14.5	14.5
Spelling	39.2	28.3
Grammar and Punctuation	47.1	35.8
Numeracy	27.5	23
Data, Measurement, Space and Geometry	25.5	24.2
Number, Patterns and Algebra	23.5	21

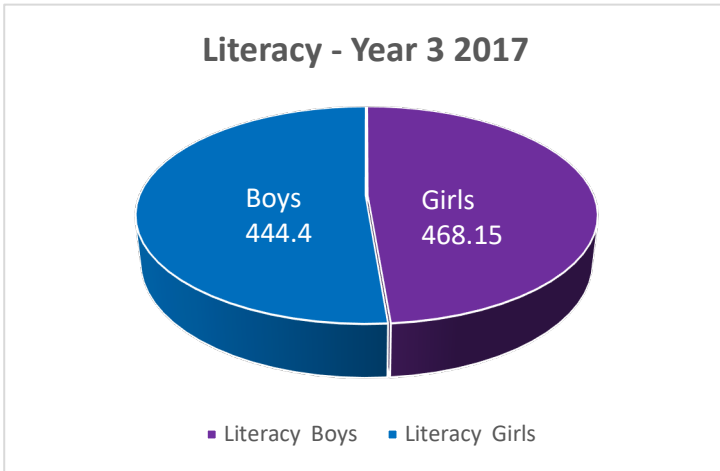
Graph 1



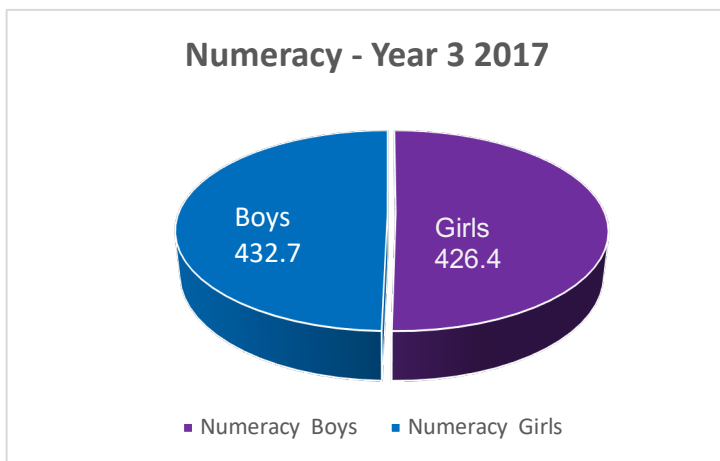
Gender comparison – Year 3

The pie chart below shows that girls outperformed boys in the Literacy tests and boys outperformed girls in the and Numeracy tests. In 2015 and 2016 boys outperformed girls in both areas.

Graph 2



Graph 3



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2017 Year 5 NAPLAN Results

No Year 5 students were absent, exempt or withdrawn.

State Average Comparison

Table 3 indicates that Macarthur students achieved above the State Mean in all tests except Spelling.

Table 3

	Reading	Writing	Spelling	Grammar and Punctuation	Numeracy	Data, Measurement, Space, Geometry	Number, Patterns, Algebra
State Mean	508.5	477.9	507.9	506.3	499.6	497.1	500.4
School Mean	533.5	483.1	503.7	512.6	510.1	507.2	511.9

National Benchmark for Year 5

Table 4 below indicates that the Macarthur students achieved above the National Benchmark for all tests.

Top 2 Bands for Year 5

Table 4 below shows that Macarthur students exceeded the State in the top two bands in most domains with the exception of Writing and Grammar and Punctuation. Achievement in the top two Bands for these domains have declined considerably from 2016. In 2016, 38.9% of students achieved one of the top two bands for Writing and 51.8% of students achieved one of the top two bands for grammar and punctuation. This will be further investigated.

Table 4

Year 5 2017 NAPLAN Test	% of Macarthur students below national minimum standards	Macarthur students achieving above National Band 4 Bench mark	% Students achieving top two bands	
			Macarthur	State
Reading	2	86.3	45.1	39.7
Writing	3.9	88.3	15.7	18.1
Spelling	2	88.2	29.4	38.2
Grammar and Punctuation	0	78.4	37.3	36.2
Numeracy	3.9	86.3	41.2	32.5
Data, Measurement, Space and Geometry	3.9	88.3	37.1	31.4
Number, Patterns and Algebra	3.9	84.3	39.2	31.1

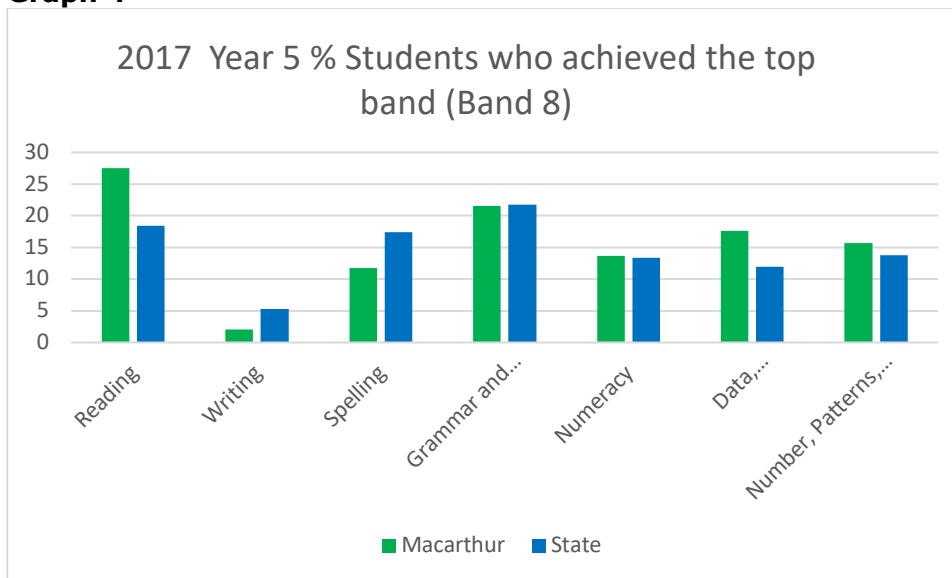
Percentage of Year 5 Students Achieving Top Band

Table 5 and Graph 4 below indicate that Macarthur students exceeded the State in the top band in all domains except Writing and Spelling. Macarthur significantly exceeded the State in Reading and this was a considerable improvement from 2016. The previous trend of Year 5 Macarthur students not achieving as many Band 8 results in Reading and Data, Measurement, Space and Geometry as the State has been reversed.

Table 5

Year 5 2017 NAPLAN Test	% Students achieving in the highest band (Band 8)	
	Macarthur	State
Reading	27.5	18.4
Writing	2	5.3
Spelling	11.8	17.4
Grammar and Punctuation	21.6	21.8
Numeracy	13.7	13.4
Data, Measurement, Space, Geometry	17.6	12
Number, Patterns, Algebra	15.7	13.8

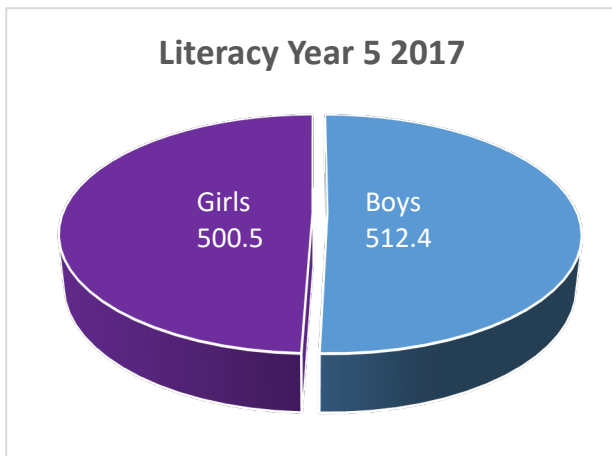
Graph 4



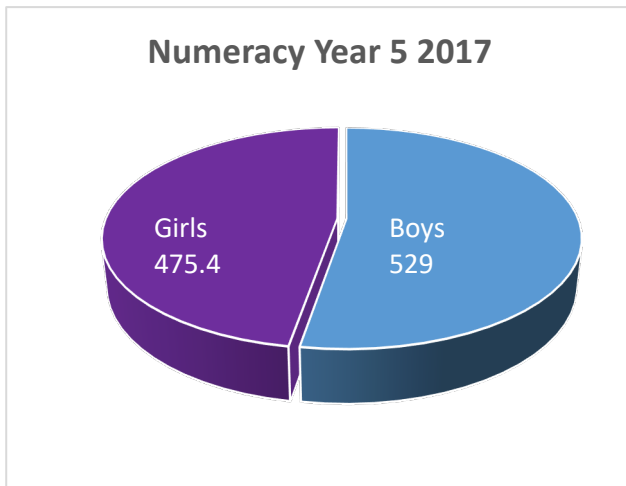
Gender comparison – Year 5

Boys outperformed girls in both the literacy and numeracy tests. This was similar when the students were in Year 3.

Graph 5



Graph 6



Value Added Data – Year 5

Value added data tracks student progress for those students who sat the Year 3 NAPLAN Test in 2015 and the Year 5 NAPLAN in 2017. It provides a measure of their academic growth over this time.

Growth on the NAPLAN scales varies depending on prior scores and because of this, a measure based on the percentage of students achieving expected growth is more useful for diagnostic and school planning purposes than a measure based on average growth alone. As a result, individual student growth will be tracked.

The general standard for academic growth is represented in the table below. Growth for numeracy is high. Growth in Writing is higher than State average. Growth in other domains is lower than expected and needs to be monitored, especially Spelling.

Table 6

	2013 Average Scale Score - Growth		2014 Average Scale Score Growth		2015 Average Scale Score - Growth		2016 – Average Scale Score – Growth		2017- Average Scale Score – Growth	
	School	State	School	State	School	State	School	State	School	State
Reading	93.5	83.2	68.3	78.4	87.8	77.7	78.3	80.1	77	78.2
Writing	73	55.4	66	49.8	49.8	61.2	N/A	N/A	58.8	55.1
Spelling	96.4	84	76.1	79.4	83.5	83.8	68.2	77.6	82	89.6
Grammar & Punctuation	89.6	77.7	69.5	78.2	69.4	72.4	62.8	76.3	64.9	66.6
Numeracy	100.1	88.5	94.1	88.8	101	94.1	92	91.7	99.4	96.8

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2017 Year 7 NAPLAN Results

No students were absent or exempt from the tests. One student was withdrawn from the tests

State Average

Macarthur Year 7 students achieved above the State Mean in all tests (indicated in table 7 below).

Table 7

	Reading	Writing	Spelling	Grammar and Punctuation	Numeracy	Data, Measurement, Space, Geometry	Number, Patterns, Algebra
State Mean	548.6	516.8	550.7	558.3	560.3	558.2	555
School Mean	587.5	557.1	590.8	574	607.1	598.6	612.1

National Benchmark

Table 8 below indicates the majority of Year 7 students achieved results well above the National Benchmark in all tests.

Top 2 Bands

Macarthur students performed better than the State in the top two bands for all domains as indicated in Table 8.

Table 8

Year 7 2017NAPLAN Test	% Of Macarthur students below national minimum standards	% Macarthur students achieving above National Band 5 Bench mark	% Students achieving top two bands	
			Macarthur	State
Reading	0	95.9	47.3	30.6
Writing	1.4	92.7	32.5	21.3
Spelling	0	94.6	59.4	41.3
Grammar and Punctuation	2.7	90.5	43.3	30.1
Numeracy	0	97.3	60	34.9
Data, Measurement, Space, Geometry	1.3	98.7	54.7	33.3
Number, Pattern, Algebra	1.3	96	66.7	39.1

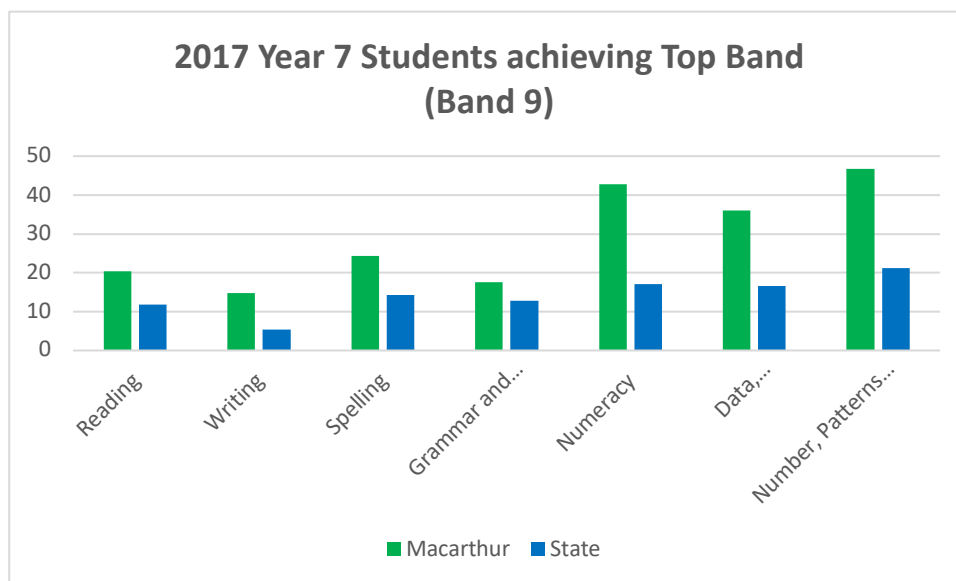
Percentage of Students Achieving Top Band (Band 9)

Table 9 and Graph 7 below show that Macarthur students achieved more Band 9 results compared to the State in all domains. Macarthur students significantly outperformed the State in Reading, Spelling and all areas of Numeracy.

Table 9

Overall Year 7 NAPLAN 2017 Results	% Students achieving in the highest band (Band 9)	
	School	State
Reading	20.3	11.8
Writing	14.7	5.4
Spelling	24.3	14.3
Grammar and Punctuation	17.6	12.8
Numeracy	42.7	17.1
Data, Measurement, Space & Geometry	36	16.6
Number, Patterns & Algebra	46.7	21.2

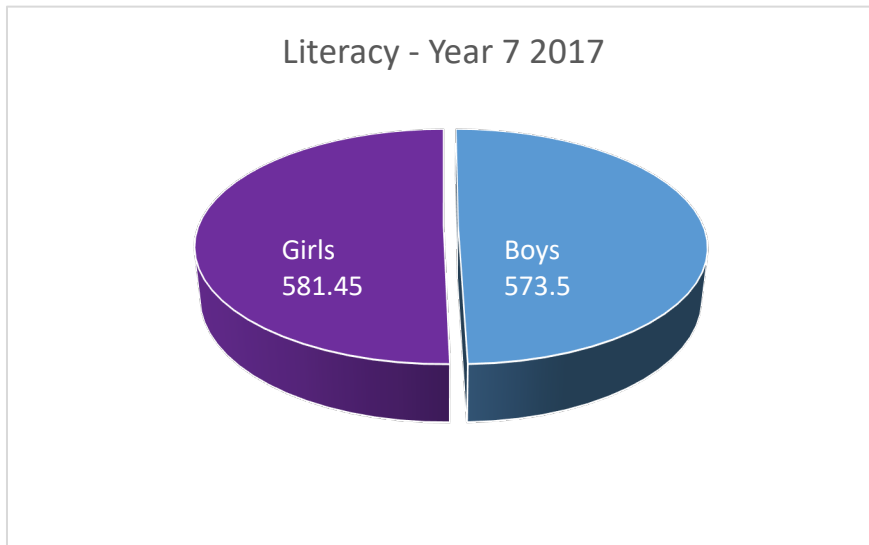
Graph 7



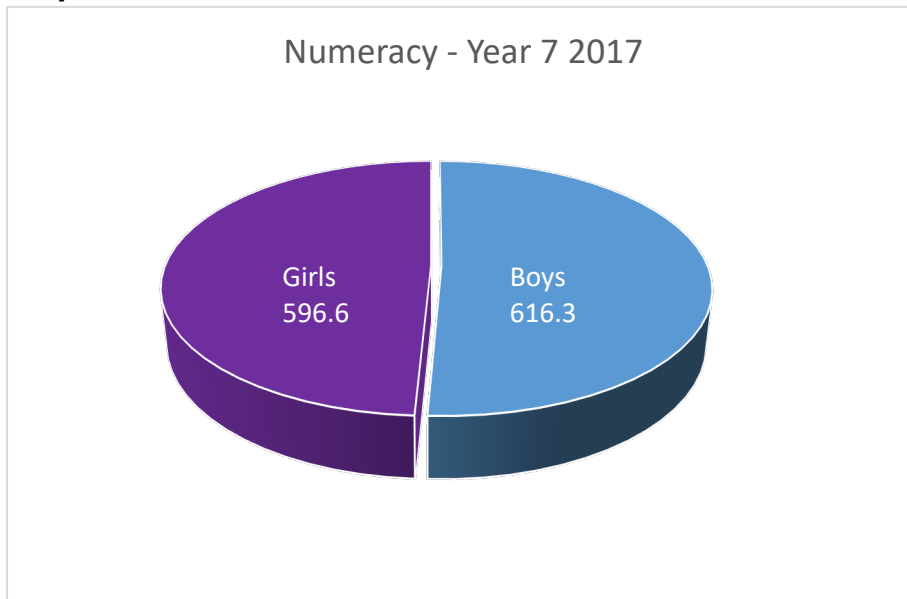
Gender Comparison – Year 7

There is not a significant difference in the achievement of boys versus girls on the tests. However, overall, boys outperformed girls in Numeracy tests and Girls outperformed boys in the Literacy tests.

Graph 8



Graph 9



Value Added Data – Year 7

Value added data tracks student progress for those students who have sat both the Year 5 NAPLAN Test in 2015 and the Year 7 NAPLAN test in 2017. It provides a measure of their academic growth over this time. The general standard for academic growth in this time is represented in the following table. The value-added growth for Writing, Spelling and Numeracy are above the level of growth for the State (refer table below) but Reading and Grammar and Punctuation is lower than the State. Individual students whose academic growth declined in 2017 will be monitored.

Table 10

	2013 – Average Scaled Score – Growth		2014– Average Scaled Score – Growth		2015– Average Scaled Score – Growth		2016– Average Scaled Score – Growth		2017 – Average Scaled Score - Growth	
	School	State	School	State	School	State	School	State	School	State
Reading	53.7	48.4	41.4	49.1	55	42.5	44.6	38.1	38.9	46.3
Writing	30.8	24.5	40	26.8	32.1	27.7	N/A	N/A	63.4	33.5
Spelling	59.7	61.3	44.4	45.3	41.6	50/7	41.2	43.7	53.6	52
Grammar Punctuation	56.9	33.2	48.4	45.8	37.1	38.4	30	32.2	23.6	37
Numeracy	90	48.6	64.3	53.1	51.6	53.1	66.1	58.9	68.2	61.1

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Year 9 NAPLAN Results

One student was absent from the tests. No students were withdrawn or exempted.

State Average Comparison

Macarthur students achieved well above the State Mean in all tests, indicated in Table 11.

Table 11

	Reading	Writing	Spelling	Grammar and Punctuation	Numeracy	Data, Measurement, Space, Geometry	Numbers, Patterns, Algebra
State Mean	588.8	559.1	591.9	582.7	602.9	603	602.3
School Mean	621.8	611.3	617.2	623.3	646.4	656	637.7

National Benchmark

Table 12 below indicates that the majority of Year 9 students achieved results well above the National Benchmark in most tests.

Median

The median score in some literacy domains increased from 2016 – reading 36 [34], writing 36 [33] while Spelling decreased 15 [18]. The median for Numeracy reverted back to its score from previous years, Numeracy 32 [40]. Spelling will be investigated further as this is the second year in a row the median score has decreased.

Top 2 Bands

Macarthur Year 9 students achieved significantly more Band 9 and 10 results in all domains compared to the State.

Table 12

Year 9 2017 NAPLAN Test	% of Macarthur students below national minimum standards	% Macarthur students achieving above National Band 6 Bench Mark	Median score for items tested	Median %	% Students achieving top two bands	
					Macarthur	State
Reading	0	90.1	36	72%	41.6	24.7
Writing	6.5	81.8	36	77%	36.4	18
Spelling	1.3	93.5	15	50%	46.8	31.1
Grammar and Punctuation	2.6	92.2	17	61%	42.9	24.8
Numeracy	0	100	32	66%	52	29.8
Data, Measurement, Space, Geometry	0	100	N/A	N/A	53.3	27.2
Numbers, Patterns, Algebra	0	93.5	N/A	N/A	48.1	30.3

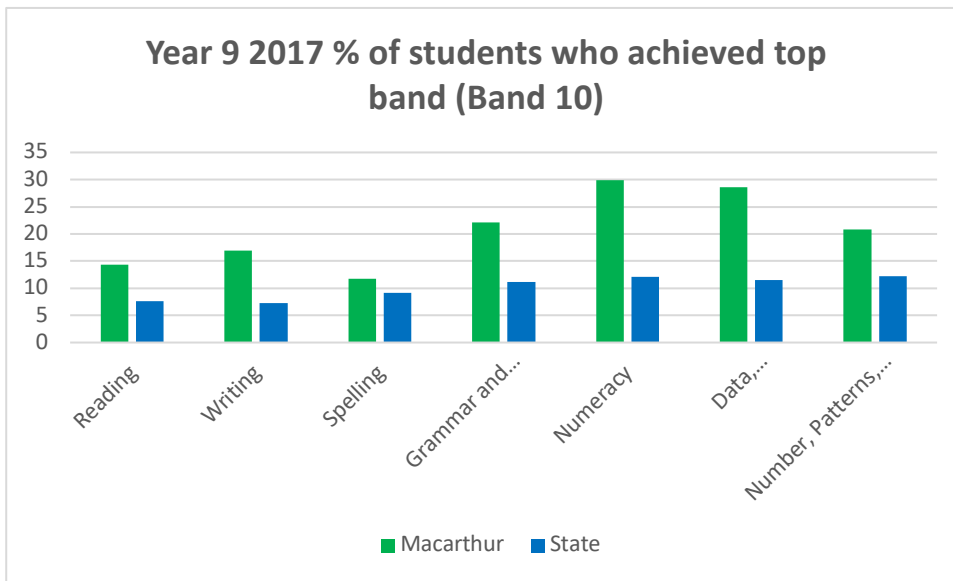
Percentage of Year 9 Students Achieving Top Band

Table 13 and Graph10 indicate the percentage of Year 9 Macarthur students who achieved results in the top band exceeded the State for all tests and considerably performed better at the top level in Grammar and Punctuation and all areas of Numeracy.

Table 13

2017 Year 9 NAPLAN	% Students achieving in the highest band (Band10)	
	School	State
Reading	14.3	7.6
Writing	16.9	7.3
Spelling	11.7	9.1
Grammar and Punctuation	22.1	11.1
Numeracy	29.9	12.1
Data, Measurement, Space & Geometry	28.6	11.5
Number, Patterns, Algebra	20.8	12.2

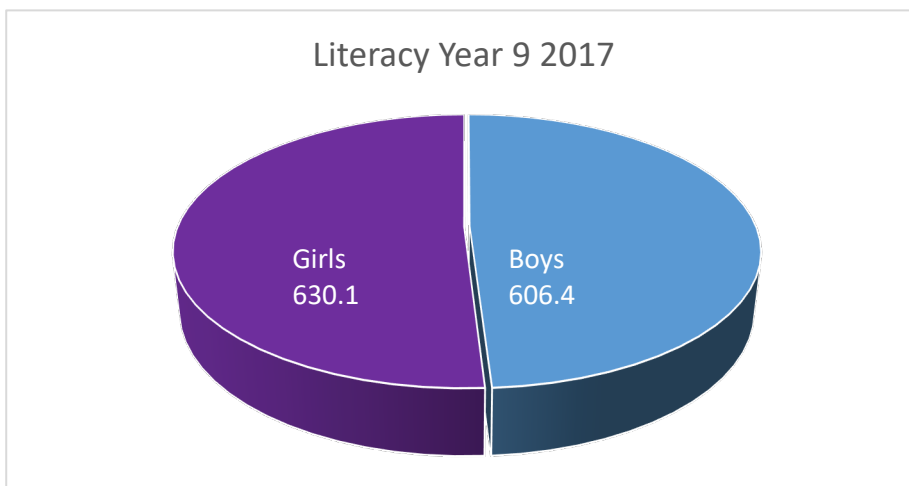
Graph 10



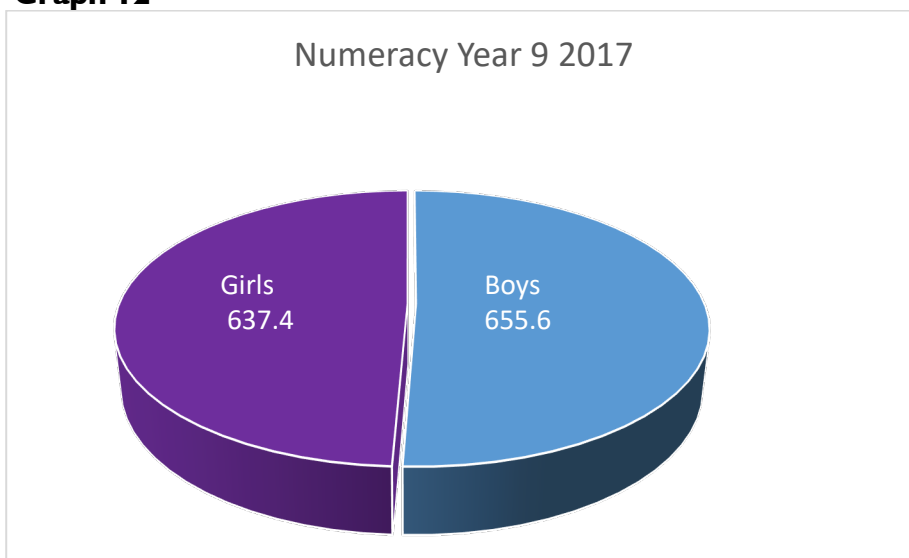
Gender Comparison – Year 9

Girls outperformed boys in literacy and boys outperformed girls in numeracy

Graph 11



Graph 12



Value Added Data – Year 9

Value added data tracks student progress for those students who sat both the Year 7 NAPLAN Tests in 2015 and the Year 9 NAPLAN in 2017 at Macarthur. It provides a measure of their academic growth at Macarthur over this time. The general standard for academic growth is represented in Table 14. There has been greater average growth for Macarthur students in all areas with the exception of Reading compared to the State. The average School growth in writing significantly exceeded the State growth. Individual students whose academic growth declined in 2017 will be monitored.

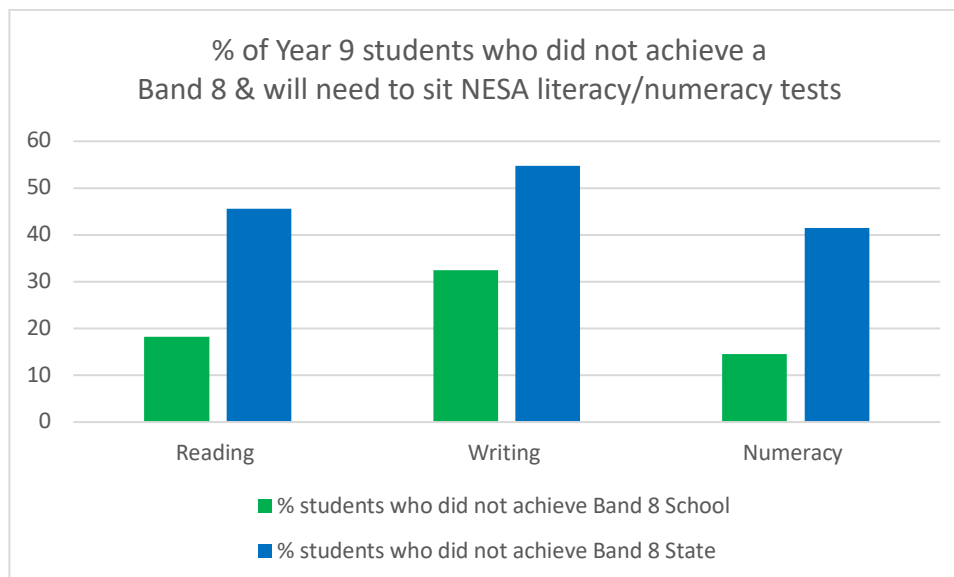
Table 14	2013 – Average Scaled Score - Growth		2014– Average Scaled Score - Growth		2015 – Average Scaled Score - Growth		2016 – Average Scaled Score - Growth		2017	
	School	State			School	State	School	State	School	State
Reading	School	State	40.7	39	34.5	38.6	33.8	32.2	32.7	38.6
Writing	57.2	40.4	40.4	27.2	40.1	27.2	N/A	N/A	71.5	46.5
Spelling	42.1	25.3	42.1	34.7	38.8	31.7	34.6	33.8	40.4	36
Grammar Punctuation	54.8	43.9	35.2	25.1	20.9	27.7	15.2	21.1	45.6	34.8
Numeracy	45.4	40.1	43.3	50.1	44.6	47.6	37.8	40.7	54.4	52.4

NAPLAN Performance and minimum HSC standards

In 2018, Students who do not prequalify for HSC minimum standards by achieving a Band 8 in Reading, Writing and Numeracy will need to sit NESA Literacy and Numeracy tests. Table 15 and Graph 13 indicate that significantly fewer Macarthur students will need to complete further tests compared to the State.

Table 15	% students who did not achieve Band 8	
	School	State
Reading	18.2	45.6
Writing	32.5	54.8
Numeracy	41.5	41.5

Graph 13



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