

4.0 ANALYSIS OF VARIANCE – FOR THE YEAR ENDING 31 DECEMBER 2013

Strategic Goals – Charter – Alignment with Charter and Strategic Goals

- To Improve Literacy and Numeracy - Foundation Skills / to improve student achievement through evidence based teaching and specific achievement targets (2.3.3 – Kapanui School Charter Page 13)
- Kapanui Students will achieve at or above expected levels for their age – Writing / Reading / Spelling / Numeracy (Kapanui School Charter Page 14)

- All students are able to access The New Zealand Curriculum as evidenced by achievement in relation to National Standards. (Kapanui School Annual Plan 2011 – 13 – Page 18)

- Students Goals - Using languages, symbols and text (Kapanui School Charter Page 8) - When students leave from Kapanui School we would like them to
 - Have developed basic understandings, knowledge and skills across the essential learning areas.
 - Communicate competently and confidently by listening, speaking, writing and reading

Annual Goals / Targets for Improvement of Student Achievement - To increase the number of students achieving at or above the National Standard for reading, writing and mathematics

Brief explanation why the board set its strategic goals / targets

These targets and goals have been set by the Board in line with the Charter expectations of high levels of achievement in literacy and numeracy. Student achievement in reading written language and mathematics in particular has been a focus of the Board for staff and school development. Written language and mathematics results have stayed at a similar level over the last 4 years and the Board would like to see results move to a similar level as reading results. Specific target groups of students are chosen on a needs basis from available data and overall teacher judgements.

Data indicates that the school needs to focus on the MOE priority group Maori students particularly in writing and mathematics. Data also indicates that girls perform less well than boys in mathematics.

2013 ANALYSIS OF VARIANCE - KAPANUI SCHOOL 2871

Focus: Reading																						
Strategic Aim: To increase the number of students achieving at or above the National Standard for reading																						
Annual Aim: Overall teacher judgements based of available assessment information will show 90% Y1- 4 and 85% Y5-8 students reading at or above the expected MOE National Standard.																						
Baseline data: National Standard reading 2010 – 2013																						
	%																				Y1-4	Y5-8
Yr	10	11	12	13	10	11	12	13	10	11	12	13	10	11	12	13	10	11	12	13	90% Target	85% Target
	AB				At				B				WB				At +					
1	48	67	41	41	33	19	35	41	17	0	13	14	2	0	11	4	81	86	76	82	-8	
2	66	62	46	42	28	36	51	50	3	14	3	4	3	2	0	2	94	98	97	94	4	
3	25	44	49	25	70	44	44	65	3	8	7	10	2	4	0	0	95	88	93	90	0	
4	31	35	46	36	58	49	44	60	10	11	7	3	2	5	3	0	89	84	90	97	7	
5	31	29	22	31	35	53	59	57	32	13	17	11	12	5	3	1	65	82	80	88		3
6	27	42	38	31	48	35	45	58	22	16	17	10	3	7	0	2	75	76	83	89		9
7	42	25	40	45	31	45	28	36	21	19	26	11	6	10	5	8	73	70	69	81		1
8	22	28	25	31	49	59	57	46	18	14	12	15	12	0	6	9	71	86	82	76		-9
	36	42	39	35	44	43	45	52	16	12	13	10	5	4	4	3	80	84	84	87		2
Target: 90% Y1- 4 and 85% Y5-8 students reading at or above the expected MOE National Standard																						
Actions (what did we do?)									Outcomes (what happened?)						Reasons for the variance (why did it happen?)						Evaluation (where to next?)	
The Board approved a set of actions to identify and target at risk students.									The 2013 average across the school for At						The two year levels not to achieve the target in 2013 were Y1 (-8%) and						In 2014 the Board will target the students who were below in 2013.	

<p>The Board put in place professional learning groups for staff that targeted below students in reading. These provided high levels of professional sharing and development targeted at improving student achievement.</p> <p>The Board targeted budget spending to achieve the actions.</p>	<p>and Above was 86.8% and 84.1% in 2012. This is an increase of 2.7%. The 90% target for Y1- 4 was achieved in 3 out of 4 year levels. The 85% target for Y5-8 was achieved for 3 out of 4 year levels.</p>	<p>Y8 (-9%). 13 students in Y1 were below or well below. 14 students were below or well below in Y8.</p>	
<p>Planning for next year: The process put in place over the last 3 years to raise student achievement in reading has been a success and will be continued. Student achievement data indicates a rise in average results. Issues with the Y1 group have been identified and teaching practices reviewed with the help of an outside expert. Some recommendations for changes to the teaching practices in Y1 have been made and will be implemented in 2014.</p>			

Focus: Reading – Maori Students

Strategic Aim: To increase the number of students achieving at or above the National Standard for reading

Annual Aim: To increase the number of Maori students achieving at or above the National Standard for reading

Baseline data:

Reading	Well below		Below		At		Above		Total	At+		Diff
	Number	Proportion	Number	Proportion	Number	Proportion	Number	Proportion	Number	2013	2012	
All students	16	3.2%	51	10.1%	261	51.6%	178	35.2%	506	86.8%	84.10%	2.70%
Māori	0	0.0%	9	13.8%	44	67.7%	12	18.5%	65	86.2%	77.30%	8.90%
Pasifika	0	0.0%	2	16.7%	7	58.3%	3	25.0%	12	83.3%	84.50%	-1.2

Target: Maori and Pacifica students assessed as Below in 2012 (12, 22.6%) – Target to decrease the % of students in these groups assessed as below by 5%

Actions (what did we do?)	Outcomes (what happened?)	Reasons for the variance (why did it happen?)	Evaluation (where to next?)
All Maori students were included in the targeted approach for all students at risk of not achieving and were included in the targeted groups. In addition the Board consulted with the Maori community in 2012 and in 2013 implemented the next steps identified during this process and designed to assist Maori student gain success as Maori. (listed in the strategic plan)	The target was to decrease the percentage of Maori students achieving below the standard by 5%. This was achieved. In 2012 22.6% (12) students were below the standard and in 2013 13.8% (9) students were below. This is a decrease of 8.8%	The positive decrease for Maori students achieving below the standard was the result of the actions put in place by the Board.	The Board will continue to implement the identified next steps to assist Maori student gain success as Maori. The Board will continue to implement a set of actions to identify and target at risk students. The Board continue to put in place professional learning groups for staff that targeted below students in reading. The Board will continue to target budget spending to achieve the actions.

Planning for next year: The Board will continue to implement the identified next steps to assist Maori student gain success as Maori.
The Board will continue to implement a set of actions to identify and target at risk students.
The Board continue to put in place professional learning groups for staff that target below students in reading.
The Board will continue to target budget spending to achieve the actions.

Focus: Writing

Strategic Aim: To increase the number of students achieving at or above the National Standard for writing

Annual Aim: Overall teacher judgements based of available assessment information will show **90% Y1- 5 and 85% Y6-8** students writing at or above the expected MOE National Standard

Baseline data:

Y	Writing %																				2013	
	2010	11	12	13	10	11	12	13	10	11	12	13	10	11	12	13	10	11	12	13	90% Target	Y6-8 Target
	Ab				At				B				WB				At +					
1	17	3	20	13	65	81	59	67	19	12	9	17	0	3	13	3	81	84	78	80	-10	
2	13	16	18	20	74	65	61	56	12	19	19	22	1	0	2	2	87	81	79	76	-14	
3	5	9	26	13	81	74	63	66	12	14	11	19	2	4	0	2	87	83	90	79	-11	
4	27	29	17	9	66	49	71	62	7	19	7	28	0	3	4	2	94	78	88	71	-19	
5	32	21	17	17	42	66	63	61	26	13	20	17	0	0	0	6	74	87	80	78		-7
6	17	22	25	18	48	44	66	52	27	26	8	29	8	9	2	2	66	65	91	69		-16
7	10	12	25	16	52	36	47	61	31	37	16	11	8	15	12	11	62	64	72	77		-8
8	6	14	27	17	49	59	49	53	29	22	16	15	16	6	8	15	55	73	76	69		-16
	16	16	22	15	60	59	60	60	20	20	13	20	4	5	5	5	76	77	82			

Target: Targets for 2013 – Y1-5 90%, Y6-8 85%.

Actions (what did we do?)	Outcomes (what happened?)	Reasons for the variance (why did it happen?)	Evaluation (where to next?)
The Board engaged expertise from Learning Media to provide a whole school year long programme of staff development. Staff identified target students to monitor and carried out a teacher inquiry based around meeting the needs of these	The target was not achieved in any year level. Overall the averaged result was 75.3% - At or Above. This was down 6.4% from the 2012 result of 81.7%. There was a particularly low result for boys of	Despite a focus on staff development in writing results were less positive than 2012. We are unsure why the achievement levels dropped in all year groups across the school. As writing was the	Achievement in writing continues to be an issue as it was the lowest area of national standards in 2013. Reading - At or Above 86.8%, writing 75.3%. This trend is also evident in the 2012 NS results for

students.	66.5%	<p>focus of the staff development we wonder if the increasing knowledge of NS levels and expectations of staff led to more accurate levelling of students than in previous years.</p> <p>An attitude survey NZCER Me and My School indicated that boys had a less positive attitude to school than girls.</p>	<p>NZ- At or Above 68%. It will be important to continue to provide staff with ongoing staff development to implement the learning of 2013.</p>
<p>Planning for next year: In 2014 the Board will put in place on going opportunities for staff to develop knowledge of the national standard expectations. This will included 3 opportunities to engage with other local school and moderate samples of student work.</p>			

Focus: Maori - Writing

Strategic Aim: To increase the number of students achieving at or above the National Standard for writing

Annual Aim: To increase the number of Maori students achieving at or above the National Standard for writing

Baseline data:

Writing	Well below		Below		At		Above		Total	At+		
2013	Number	Proportion	Number	Proportion	Number	Proportion	Number	Proportion	Number		2012	Diff
All students	26	5.1%	99	19.6%	304	60.1%	77	15.2%	506	75.3%	81.70%	-6.40%
Māori	1	1.5%	18	27.7%	40	61.5%	6	9.2%	65	70.8%	75.50%	-4.70%
Pasifika			2	16.7%	8	66.7%	2	16.7%	12	83.3%	84.60%	-1.30%

Target: Maori students assessed as Below in 2012 (12, 22.6%) – Target to decrease the % of students in these groups assessed as below by 5%

Actions (what did we do?)	Outcomes (what happened?)	Reasons for the variance (why did it happen?)	Evaluation (where to next?)
All Maori students were included in the targeted approach for all students at risk of not achieving and were included in the targeted groups. In addition the Board consulted with the Maori community in 2012 and in 2013 implemented the next steps identified during this process and designed to assist Maori student gain success as Maori. (listed in the strategic plan)	Overall the averaged result for Maori was 70.8% - At or Above. This was down 4.7% from the 2012 result of 75.5%. The target to reduce the below standard group by 5% was not achieved. 2012 Below 24.5%, 2013 Below 29.2%. An increase of 4.7%. However the Well Below result was more positive in 2013 by 7.9% - 5 students in 2012 and 1 student in 2013.	This result was also evident in results across all year levels 2013. We are unsure why the achievement levels dropped in all year groups across the school. As writing was the focus of the staff development we wonder if the increasing knowledge of NS levels and expectations of staff led to more accurate levelling of students than in previous years.	Achievement in writing continues to be an issue as it was the lowest area of national standards in 2013. Reading - At or Above 86.8%, writing 75.3%. This trend is also evident in the 2012 NS results for NZ- At or Above 68%. This trend is also evident for Maori students. It will be important to continue to provide staff with ongoing staff development to implement the learning of 2013

Planning for next year: In 2014 the Board will put in place on going opportunities for staff to develop knowledge of the national standard expectations. This will include 3 opportunities to engage with other local schools and moderate samples of student work.

The Board will also include goals for Maori in the 2013 annual plan and continue to provide staff with opportunities to grow their capacity to teach Maori students. This will include ongoing work for staff to be familiar with the MOE Ka Hikitia document and the expectations for registered teachers.

Focus: Mathematics

Strategic Aim: To increase the number of students achieving at or above the National Standard for mathematics

Annual Aim: Overall teacher judgements based of available assessment information will show **90% Y1- 4 and 80% Y5-8** students at or above the expected mathematics MOE National Standard

Baseline data:

	Maths %																				Y1-4	Y5-8
Y	2010	11	12	13	10	11	12	13	10	11	12	13	10	11	12	13	10	11	12	13	90% Target	80% Target
	Ab				At				B				WB				At +					
1	13	0	11	9	73	86	72	79	15	12	11	9	0	0	7	3	85	86	83	88	-2	
2	24	19	24	23	59	69	54	54	14	14	21	19	3	0	2	4	83	88	78	77	-13	
3	9	7	7	13	81	75	77	77	9	14	16	9	2	3.5	0	1	90	82	84	90	0	
4	11	24	26	12	76	64	58	71	13	11	13	17	0	1.6	3	0	87	87	84	83	-7	
5	12	23	6	28	54	53	74	54	35	23	19	15	0	1.6	2	3	65	76	80	82		2
6	17	19	25	27	52	56	59	55	20	26	16	16	11	0	0	2	69	74	84	82		2
7	33	28	28	29	17	43	30	27	40	18	30	36	10	10.4	12	8	50	72	58	56		-24
8	18	22	22	22	31	37	48	39	41	29	21	27	10	11.8	9	12	49	59	70	61		-19
	17	18	19	20	55	60	59	57	23	18	18	18	4	3.6	4	4	72	78	78			

Target: Targets for All 2013 – Y1-4 90%, Y5-8 80%.

Actions (what did we do?)	Outcomes (what happened?)	Reasons for the variance (why did it happen?)	Evaluation (where to next?)
The Board approved a set of actions to identify and target at risk students. The Board allocated budget to provide teacher aide time to assist teaching staff with targeted students. Staff monitored the progress of students	The 90% target for Y1- 4 was achieved in 1 out of 4 year levels. The 80% target for Y5-8 was achieved for 2 out of 4 year levels. PAT testing indicated that Y4-6 made greater growth than NZ year	The 2013 average across the school for At and Above was 78.1% and 77.6% in 2012. This is an increase of 0.5%. Year levels of concern were the Y7 and 8 year levels.	Mathematics will be the main focus of staff development for the next two years. The goal will be to raise student achievement by increasing the quality of teacher knowledge and instruction.

using PAT in March and November.	expectations. Y7 made the expected growth. Y8 made less than the expected growth.		We used the PAT data to provide a picture of progress across the year levels. We will continue to monitor year group progress through the use of PAT twice each year.
<p>Planning for next year: The Board has engaged the services of Advisors Plus to assist the senior leadership team develop a two year programme of staff development designed to raise student achievement by increasing the quality of teacher knowledge and instruction. The Board has budgeted for this programme.</p>			

Focus: Maori - Mathematics

Strategic Aim: To increase the number of students achieving at or above the National Standard for reading

Annual Aim: To increase the number of Maori students achieving at or above the National Standard for mathematics

Baseline data:

Maths	Well below		Below		At		Above		Total	At+		
2013	Number	Proportion	Number	Proportion	Number	Proportion	Number	Proportion	Number		2012	Diff
All students	20	4.0%	91	18.0%	293	57.9%	102	20.2%	506	78.1%	77.6%	1.0%
Māori	4	6.2%	12	18.5%	46	70.8%	3	4.6%	65	75.4%	71.7%	3.7%
Pasifika	1	8.3%	4	33.3%	6	50.0%	1	8.3%	12	58.3%	61.5%	-3.2%

Target: Maori students assessed as Below in 2012 (12, 22.6%) – Target to decrease the % of students in these groups assessed as below by 5%

Actions (what did we do?)	Outcomes (what happened?)	Reasons for the variance (why did it happen?)	Evaluation (where to next?)
The Board allocated budget to provide teacher aide time to assist teaching staff with targeted students in mathematics. Maori students were included in the targeted approach for all students at risk of not achieving and were included in the targeted groups. In addition the Board consulted with the Maori community in 2012 and in 2013 implemented the next steps identified during this process and designed to assist Maori student gain success as Maori. (Listed in the strategic plan).	Overall the averaged 2013 result was 78.1% - At or Above. This was up 1.0% from the 2012 result of 77.6%. The target to reduce the below group by 5% was not achieved. 2012 Below 28.3%, 2013 Below 24.7%. An increase of 3.6%.	While not meeting the target the result was positive as the overall gap between Maori student results and results for All students was reduced.	Mathematics will be the main focus of staff development for the next two years. The goal will be to raise student achievement by increasing the quality of teacher knowledge and instruction.

Planning for next year: The Board will include goals for Maori in the 2013 annual plan and continue to provide staff with opportunities to grow their capacity to teach Maori students. This will include ongoing work for staff to be familiar with the MOE Ka Hikitia document and the expectations for registered teachers.

Specific Target Groups – 2013 - Y1-4

Strategic Goal – Kapanui Students will achieve at or above expected levels for their age – Writing / Spelling / Reading / Numeracy				
<p>Comment - Kapanui vision statements clearly highlight the foundation skills of literacy and numeracy as vital for our students to develop – “That all students not only need to achieve high levels of competency in literacy and numeracy but to take advantage of this they need to develop the “key competencies’. That each underpins the other and together these are the ‘foundations’ of learning.”</p> <p>Kapanui School also states that it will operate an early identification / intervention policy for children at risk of not achieving.</p>				
Target Group 1 – all students turning 6 in 2012				
Focus Area – Reading	Gender - both	Ethnicity - all	Year Groups – Y1 and Y2	
Historical Position	Achievement Target 2013	Position Dec 2011 /12	Position Dec 2013	Recommendations 2014
<p>Analysis of six year reading levels 2002 – 2007 indicated a general downward trend of students achieving at or above expected reading levels at 6. Since 2009 the school has targeted this area and this trend had been reversed until the 2012 results.</p>	<p>To achieve 90% of children turning 6 in 2012 at or above expectation as measured by the six year reading level. (Green – L12+)</p>	<p>2011</p> <ul style="list-style-type: none"> • Below – Red Yellow Blue 10% • At –Green 30% • Above – Orange + 60% • At or Above 90% <p>2012</p> <ul style="list-style-type: none"> • Below – Red Yellow Blue 25% (17) • At –Green 13% (9) • Above – Orange + 62%(43) • At or Above 75% 	<p>December 2013</p> <ul style="list-style-type: none"> • Below – Red Yellow Blue 25% • At –Green 12.5% • Above – Orange + 62.5% • At or Above 75% 	<p>As we monitored these students it was obvious that we would not reach our target of 90%. As we also fell short in 2012 we invited a MOE SAFP official to review our Y1 teaching practices. Following this review together with the Y1 /2 staff a number of recommendations were made for 2014. These will be implemented in 2014.</p>

Target Group 2 – students identified as a risk of not achieving in reading through 5 year testing 2012				
Focus Area – Reading		Gender - both	Ethnicity - all	Year Groups – Y1
Historical Position	Achievement Target 2013	Current Position Feb 2013	2013 Dec - Analysis Average % at Green +, L12	Recommendations 2014
In 2009 24%, 2010 15%, 2011 10%, 2012 25% of students turning 6 were below the target level of Green – L12.	To achieve 90% of identified target students at or above expectation (Green – L12) as measured by the six year reading level.	10 (16%)students identified as a risk	80% - 8 out of 10 students achieved the target.	Continue to identify and target students at risk of not meeting the target.
2011 - Target Group 3 – students identified as a risk of not achieving in reading after 1 year at school through 6 year testing 2012				
Focus Area – Reading		Gender - both	Ethnicity - all	Year Groups – Y2
Historical Position	Achievement Target 2013	Current Position Feb 2013	2013 Dec - Analysis Average % at Turquoise, L17	Recommendations 2014
In 2009 24%, 2010 15%, 2011 10%, 2012 25% of students turning 6 were below the target level of Green – L12.	To achieve 90% of identified target students at or above Turquoise – L17 as measured by the Nov reading level after 2 years at school	22 (33%)students identified as a risk	77% - 17 out of 22 students achieved the target	Continue to identify and target students at risk of not meeting the target.
Target Group 4 – students identified as a risk of not achieving in reading through testing after 2 years at school 2012				
Focus Area – Reading		Gender - both	Ethnicity - all	Year Groups – Y3
Historical Position	Achievement Target 2013	Current Position Feb 2013	2013 Dec - Analysis Average % at Gold, L21	Recommendations 2014
In 2012 17 students turning 7 were below the target level of Turquoise – L17.	To achieve 90% of identified target students at or above Gold – L21 as measured by the Nov reading level by the end of 3 years at school	17 (24%)students identified as a risk	53% - 9 out of 17 students achieved the target.	Continue to identify and target students at risk of not meeting the target.

Target Group 2 – students identified as a risk of not achieving in reading through 5 year testing 2012				
Focus Area – Reading		Gender - both	Ethnicity - all	Year Groups – Y1
Historical Position	Achievement Target 2013	Current Position Feb 2013 - See list A	2013 Dec - Analysis Average % at Green +, L12	Recommendations 2014
In 2009 24%, 2010 15%, 2011 10%, 2012 25% of students turning 6 were below the target level of Green – L12.	To achieve 90% of identified target students at or above expectation (Green – L12) as measured by the six year reading level.	10 (16%)students identified as a risk	80% - 8 out of 10 students achieved the target.	Continue to identify and target students at risk of not meeting the target.
2011 - Target Group 3 – students identified as a risk of not achieving in reading after 1 year at school through 6 year testing 2012				
Focus Area – Reading		Gender - both	Ethnicity - all	Year Groups – Y2
Historical Position	Achievement Target 2013	Current Position Feb 2013 - See list B	2013 Dec - Analysis Average % at Turquoise, L17	Recommendations 2014
In 2009 24%, 2010 15%, 2011 10%, 2012 25% of students turning 6 were below the target level of Green – L12.	To achieve 90% of identified target students at or above Turquoise – L17 as measured by the Nov reading level after 2 years at school	22 (33%)students identified as a risk	77% - 17 out of 22 students achieved the target	Continue to identify and target students at risk of not meeting the target.
Target Group 4 – students identified as a risk of not achieving in reading through testing after 2 years at school 2012				
Focus Area – Reading		Gender - both	Ethnicity - all	Year Groups – Y3
Historical Position	Achievement Target 2013	Current Position Feb 2013 - See list C	2013 Dec - Analysis Average % at Gold, L21	Recommendations 2014
In 2012 17 students turning 7 were below the target level of Turquoise – L17.	To achieve 90% of identified target students at or above Gold – L21 as measured by the Nov reading level by the end of 3 years at school	17 (24%)students identified as a risk	53% - 9 out of 17 students achieved the target.	Continue to identify and target students at risk of not meeting the target.