



Kelburn Normal School

Analysis of Variance

For the year ended 31 December 2009

In the plans and targets set out in its charter, the board describes the school's priority learning issues and its expectations for improved student outcomes. The core business of the school is to raise student achievement, but the board could set related objectives about attendance or harassment etc. The board could also identify other priorities, objectives and targets regarding staff and board capability, finances, property, and other ownership matters.

In the annual report the board presents its 'analysis of variance' that describes for the community how the school has gone about addressing those priorities and shows how successful their approach has been. The variance report should describe the outcomes of initiatives that aim to improve the way the school manages its resources, according to the objectives in the charter. To be able to analyse progress towards student achievement targets schools will need to have collected good data or evidence about student outcomes.

A close look at this data may suggest that the school could implement some of its programmes differently to make more progress towards their long-term improvement goals.

In other words, the analysis of variance provides a sound starting point for self-review.

Format

There is no set format for the content of the analysis of variance. For most schools the format used for the analysis of variance will reflect the format of the charter. Some schools may choose to include the analysis of variance with principals and/or chairpersons reports.

The example reports below are provided as food for thought. Unlike the financial statements in these models, schools are not required to copy the format provided.

Further Information

Further information is available from the Planning for Better Student Outcomes newsletters on the Ministry of Education's website: www.minedu.govt.nz/goto/spr.. The June issue is about reporting on student achievement. The FAQs on this site also provide general advice on schools planning and reporting.

2009 Student Achievement Target One:

To increase student achievement in literacy
(A priority identified by the school and a national education priority.)

Link to Strategic Plan Goals:

Goal 1 **Implementation of the Revised Curriculum**
Develop a model for the implementation of the new curriculum which embeds the Key Competencies, creativity and Information Literacy; empowering learners to function in the knowledge society. (supports strategic priority 1 and 2)

Goal 2 **School Wide Assessment & Evaluation Procedures**
To maximise student learning, Kelburn Normal School will use the very best assessment tools available. (supports strategic priority 3)

Goal 3 **Special Needs**
At Kelburn Normal School we aim to close the gap in student achievement by providing high quality, high equity personalised, well informed learning. (supports strategic priority 3)

Historical Position	2009 Target			
Findings from the junior school assessments administered during 2008 and at the beginning of 2009 show that 42% of Year 1 students in 2008 were tracking appropriately to reach the literacy learning progression benchmark of purple by the time they were 7 years old.	By the end of term 3 100% of Year 2 students will be tracking to achieve the Literacy Learning Progression of reaching the independent reading level purple at the age of 7 years old.			
	Focus Area	Year Group	Gender	Ethnicity
	Reading	2	Both	All

Outcome	Analysis	Evaluation
Cost: Teacher Aides, additional Teacher/s, professional development, release time	In March 2009 baseline data indicated that 22/38 (58%) Year 2 students were at risk of not achieving the target above. In November 2009 data indicated 12 of the 22	Therefore 79% of Year 2 students achieved the target. There are 8/38 (21%) of Year 2 students who remain on a specialised reading programme.

	<p>students have now achieved the target.</p> <p>This means that 30/38 (79%) of Year 2 students have now achieved the target or are beyond the target achievement level.</p>	<p>4 of these students are already 7 years old and are 6 months or more behind achieving the target.</p> <p>2 of these students are not 7 years old and are tracking approximately 1-2 months behind achieving the target.</p> <p>The remaining 2 students are only 6.5 years and are tracking to achieve the target by the time they are 7 years old.</p>
<p>Next Steps for 2010</p> <ul style="list-style-type: none"> • Continued monitoring of the year 2 cohort as they move through the school • Additional support a priority for the 8 identified students who have not as yet achieved the target • Professional development for teachers of this cohort in 2010 on best practice in instructional reading <p>The year 2 cohort will continue to be a target area in 2010 through regular monitoring of reading levels. The 8 students who have not yet achieved the target will be on high priority for additional support in reading in Term 1, 2010 and beyond if necessary. Teachers of Year 3 students in 2010 will be presented with this data and the importance of targeting reading programmes for this cohort discussed and best practice shared.</p>		

KNS Student Achievement Target Two:

To increase student achievement in numeracy.
(A priority identified by the school and a national education priority.)

Link to Strategic Plan Goals:

- Goal 1 Implementation of the Revised Curriculum
Develop a model for the implementation of the new curriculum which embeds the Key Competencies, creativity and Information Literacy; empowering learners to function in the knowledge society. (supports strategic priority 1 and 2)*
- Goal 2 School Wide Assessment & Evaluation Procedures
To maximise student learning, Kelburn Normal School will use the very best assessment tools available. (supports strategic priority 3)*
- Goal 3 Special Needs
At Kelburn Normal School we aim to close the gap in student achievement by providing high quality, high equity personalised, well informed learning. (supports strategic priority 3)*

Historical Position	2009 Target			
Analysis of the beginning of the year student data in basic facts in the Year 5/6 syndicate have identified a number of children who have minimal number knowledge skills and are unable to recall their basic facts with any degree of speed or accuracy.	By the end of term 4 for all students in the Year 5/6 syndicate to be achieving the following percentages in their four basic facts operations in a timed 5 minute test: Year 5: Addition 75%, Subtraction 75%, Multiplication 60%, Division 35% Year 6: Addition 85%, Subtraction 85%, Multiplication 80%, Division 60%			
	Focus Area	Year Group	Gender	Ethnicity
	Maths Basic Facts	5 and 6	Both	All

Outcome	Analysis	Evaluation
Cost: Teacher Aides, additional Teacher/s, professional development, release time	<p>Year 5 cohort In November 27/41 (66%) year 5 students achieved the 75% target in addition, 22/41 (53.6%) Year 5 students achieved the 75% in subtraction, 34/41 (83%) achieved the 60% target in multiplication, 31/41 (75.6%) achieved the 35% target in division.</p> <p>Year 6 cohort In November 36/41 (88%) achieved the 85% target in addition and the same percentage for subtraction. 23/41 students (54%) achieved the 80% target in multiplication and 30/41 (70%) achieved the 60% target in division.</p>	<p>Year 5 Addition – 33% still to achieve the target Subtraction – 46% still to achieve the target Multiplication – 17% still to achieve the target Division – 24% still to achieve the target</p> <p>Year 6 Addition – 12% still to achieve the target Subtraction – 46% still to achieve the target Multiplication – 20 % still to achieve the target Division – 30% still to achieve the target</p>
<p>Next Steps 2010 There was a targeted teaching group of 21 students who received additional support in Basic Facts throughout the year. These students will continue to be monitored throughout 2010. Professional development will be available for teachers in basic facts.</p>		

KNS Student Achievement Target Three:

To increase student achievement in literacy
(A priority identified by the school and a national education priority.)

Link to Strategic Plan Goals:

*Goal 1 Implementation of the Revised Curriculum
Develop a model for the implementation of the new curriculum which embeds the Key Competencies, creativity and Information Literacy; empowering learners to function in the knowledge society. (supports strategic priority 1 and 2)*

*Goal 2 School Wide Assessment & Evaluation Procedures
To maximise student learning, Kelburn Normal School will use the very best assessment tools available. (supports strategic priority 3)*

*Goal 3 Special Needs
At Kelburn Normal School we aim to close the gap in student achievement by providing high quality, high equity personalised, well informed learning. (supports strategic priority 3)*

Historical Position	2009 Target			
Findings from the 2008 school wide student achievement report identified there were a number of students who were at risk in spelling, falling below their chronological age.	By the beginning of term 4, 100% of identified students from term one baseline data will have made a significant spelling improvement by increasing their spelling age by at least 10-15 months. (Learning difference of 6-12 months allowing for an increase in age of 9 months)			
	Focus Area	Year Group	Gender	Ethnicity
	Spelling	Year 3 / 4 Year 5 / 6 Year 7/ 8	All	All

Outcome	Analysis	Evaluation
Cost: Teacher Aides, additional Teacher/s, professional development, release time	Year 3 and 4 cohort 11/13 target students made an increase between 11 months - 2.9 years 1/13 left the school and did not complete the programme 1/13 was absent for the testing	Year 3 and 4 Cohort All students (100%) in the target group who were present for the final testing achieved the target

	<p>Year 5 and 6 cohort 6/11 target students made an increase between 11 months – 2.4 years 5/11 target students made an increase between 4 – 8 months</p> <p>Year 7 and 8 cohort 5/11 target students made an increase between 1.1 years- 1.10 years 6/11 target students made an increase between 3-7 months</p>	<p>Year 5 and 6 45% of year 5 and 6 students in the target group have yet to achieve the target</p> <p>Year 7 and 8 55% of target students have yet to achieve the target</p>
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Next Steps 2010

Teachers of these students will be made aware to monitor closely and provide suitable spelling programmes in 2010.