

An additional feature in national monitoring since 1999 has been the commitment to look directly at the achievement of Pacific students in New Zealand primary and intermediate schools. These students were among the samples in NEMP assessments between 1995 and 1998, but not in sufficient numbers to allow their results to be reported separately. At the request of the Ministry of Education, in each year since 1999 NEMP has selected special additional samples of 120 year 4 students and 120 year 8 students, so that the achievement of Pacific students could be assessed and reported. The augmented samples are too small, however, to allow separate reporting on students from different Pacific nations (such as Samoa, Tonga, and Fiji).



All schools in the main NEMP year 8 sample that had 15 percent or more Pacific students (as classified in school records) were selected. All other schools nationally with at least 12 year 8 students and at least 15 percent Pacific students in their total roll were identified, and an additional random sample of 10 schools drawn from this list. A similar procedure was followed at year 4 level, except that schools already chosen at year 8 level were excluded from the sampling list. From each specially sampled school, 12 students (in 3 groups of 4) were sampled, confirmed and assessed using exactly the same procedures as in the main sample. The students' performances were also scored in the same manner as the performances of students in the main sample.

The results for Pacific, Māori, and other students in the schools with more than 15 percent Pacific students were then compared. Because all of the schools chosen for these analyses have at least 15 percent Pacific students, the results only apply to students at schools like these.

Differences among the three ethnic groups of students were checked for statistical significance using one way analysis of variance on the overall scores for each task. Each analysis compared the performance of about 45 Pacific students, 25 Māori students and 35 other students. The critical level for statistical significance was set at $p = .05$ (so that differences this large or larger among the subgroups would not be expected by chance in more than five percent of cases). Where statistical significance occurred, Tukey tests were used to identify which groups differed significantly.

The mean scores for each group on each task are presented in the tables following, together with the standard deviations for all students in this sample. Statistically significant differences are clearly indicated.

YEAR 4

Average (mean) marks for year 4 students, attending schools enrolling at least fifteen percent Pacific students, who are classified as Pacific students, Māori students or other students.

Statistically significant ($p < .05$) differences among the means are shown thus: significantly **lower** or **higher**.

	Pacific Mean	Māori Mean	Other Mean	Overall Std.Dev.
Listening Tasks				
Phone Message	3.3	3.2	3.9	1.9
The Clumsy Tiger	5.5	6.6	7.0	1.8
Cats Sleep Anywhere	6.1	3.1	3.7	2.1
The Wind and the Sun	10.4	9.7	11.2	4.1
Weather Forecast	1.7	1.8	2.4	1.2
Drummer Dylan	1.8	2.2	3.2	1.4
Line Up	5.6	6.6	6.7	2.1
Zippos	6.2	6.7	7.0	2.1
Link Task 1	3.8	4.0	5.1	1.9
Link Task 2	5.2	6.6	6.5	2.9
Link Task 3	3.2	5.8	5.3	3.0
Link Task 4	1.1	1.4	1.9	1.2
Link Task 5	7.0	8.2	10.7	3.3
Link Task 6	4.6	4.6	5.0	1.4
Viewing Tasks				
It's Cool to Read	2.2	1.4	2.6	1.2
The Wolf	2.5	3.1	4.0	2.0
Santa Gets Ready	1.4	1.1	1.9	1.1
TV Commercials	0.4	0.3	0.4	0.6
Bedroom Plan	4.8	5.0	5.7	1.6
Māori Gods	3.3	2.9	4.3	2.5
Sweet Stall	0.6	1.0	1.0	1.2
Weet-Bix Card	1.6	1.4	1.7	1.1
Poster	0.8	0.9	1.0	1.1
Link Task 9	2.8	2.9	4.3	2.5
Link Task 10	1.5	1.8	2.5	1.4
Link Task 11	7.8	7.6	7.7	2.2
Link Task 12	2.8	3.2	3.2	1.5
Link Task 13	4.5	4.6	4.6	2.6
Link Task 14	1.0	1.2	1.6	0.8
Link Task 15	2.6	2.4	2.7	1.3

For year 4 students, there were statistically significant differences in performance among the three groups on 13 of the 30 tasks (6 listening and 7 viewing tasks). The Pacific students scored lower than the "other" students on 11 tasks and than the Māori students on 1 task, but also higher than the Māori students on 1 task. The Māori students scored lower than the "other" students on 5 tasks and higher on none.

YEAR 8

Average (mean) marks for year 8 students, attending schools enrolling at least fifteen percent Pacific students, who are classified as Pacific students, Māori students or other students.

Statistically significant ($p < .05$) differences among the means are shown thus: significantly **lower** or **higher**.

	Pacific Mean	Māori Mean	Other Mean	Overall Std.Dev.
Listening Tasks				
Phone Message	4.6	4.5	5.0	2.0
The Clumsy Tiger	6.4	6.9	7.0	1.7
Edmund Hillary	4.0	3.9	5.0	2.3
The Wind and the Sun	13.1	12.5	14.1	3.5
Weather Forecast	2.3	3.1	2.8	1.1
Drummer Dylan	3.8	3.9	4.7	1.5
Line Up	7.2	8.2	8.3	2.2
Zippos	7.6	7.5	7.6	2.1
Lexis	11.1	12.1	11.7	1.6
Link Task 1	5.6	6.3	6.6	2.2
Link Task 2	7.1	7.8	8.3	2.9
Link Task 3	6.4	7.5	7.9	3.0
Link Task 4	1.8	2.9	2.5	1.4
Link Task 5	10.1	11.6	11.6	2.8
Link Task 6	5.9	6.6	6.9	1.4
Link Task 7	7.4	7.4	7.3	1.9
Link Task 8	4.0	4.3	4.4	1.7
Viewing Tasks				
It's Cool to Read	3.0	3.2	3.3	1.3
The Wolf	3.8	4.4	5.0	2.3
Santa Gets Ready	1.9	1.6	1.9	1.1
TV Commercials	5.1	5.8	5.9	2.7
House Plan	4.6	4.8	5.5	1.3
Māori Gods	4.7	4.7	4.8	1.8
Sweet Stall	2.1	2.0	3.0	2.0
Weet-Bix Card	2.0	1.6	2.1	1.1
Poster	1.5	1.9	2.0	1.1
Minties Moments	0.4	0.5	0.7	0.7
Link Task 9	5.6	5.5	6.6	3.0
Link Task 10	2.1	3.7	3.3	1.6
Link Task 11	7.9	7.6	7.9	1.8
Link Task 12	3.4	3.9	3.8	1.6
Link Task 13	5.4	5.5	5.5	1.5
Link Task 14	1.6	1.8	2.5	1.1
Link Task 15	3.0	3.3	3.5	0.9
Link Task 16	4.8	6.0	6.8	2.4



For year 8 students, there were statistically significant differences in performance among the three groups on 12 of the 37 tasks (6 listening and 6 viewing tasks). The Pacific students scored lower than the “other” students on 8 tasks, than the Māori students on 3 tasks, and than both other groups on 1 task. The Māori students scored very similarly to the “other” students: lower on just 1 task and significantly higher on none.



Summary

Compared to Māori and “other” students in schools with more than 15 percent Pacific students, year 4 Pacific students in these schools performed less well than the “other” students on 37 percent of the tasks but similarly to Māori students. In the corresponding results at year 8 level, the Pacific students performed less well than the “other” students on 24 percent of the tasks and less well than the Māori students on 11 percent of tasks.