A new feature in National Monitoring in 1999 was the commitment to look directly at the achievement of Pacific Island students in New Zealand primary and intermediate schools. These students have been 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, NEMP has selected special additional samples of 120 year 4 students and 120 year 8 students to allow the achievement of Pacific Island students to be assessed and reported. The augmented sample was too small, however, to allow separate reporting on students from different Pacific Island nations (such as Samoa, Tonga, and Fiji).

All schools in the main NEMP year 8 sample that had ten percent or more Pacific Island students (as classified in school records) were selected. All other schools nationally with at least 12 year 8 students and at least 20 percent Pacific Island students in their total roll were identified, and an additional random sample of ten 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 three groups of four) 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 Island, Māori, and other students in the schools with more than ten percent Pacific Island students were then compared. Because all of the schools chosen for these analyses have at least ten percent Pacific Island 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 50 Pacific Island students, 25 Māori students and 45 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 below, together with the standard deviations for all students in this sample. Statistically significant differences are clearly indicated.

For year 4 students, there were statistically significant differences in performance among the three groups on 23 of the 50 tasks. The Pacific Island students scored significantly lower than the Māori students on seven tasks and than the "other" students on 20 tasks. The Māori students scored significantly lower than the "other" students on four tasks.

For year 8 students, there were statistically significant differences in performance among the three groups on 19 of the 48 tasks. The Pacific Island students did not score significantly lower than the Māori students on any task, but were lower than the "other" students on 18 tasks. The Māori students scored significantly lower than the "other" students on nine tasks.

YEAR 4 YEAR 8

Average (mean) marks for year 4 and year 8 students, attending schools enrolling at least ten percent Pacific Island students, who are classified as Pacific Island students, Māori students or other students.

	Pacif.Is.	Māori	Other	Overall		Pacif.Is.	Pacif.Is. Māori	Pacif.Is. Māori Other
	Mean	Mean	Mean	Std.Dev.		Mean	Mean Mean	Mean Mean Mean
Seed to Pine Tree	0.92	0.90	1.00	0.40	Seed to Pine Tree	*	-	
Finger Games					Finger Games			
Growing in the Mighty Forest	1.77	2.57	4.21	2.03	Growing in the Mighty Forest			
Spiders	6.79	7.58	7.47	2.36	Spiders			
nimal Adaptation – Snail	1.27	1.16	1.62	1.02	Animal Adaptation – Snail	*	*	*
Adaptation – Praying Mantis	0.73	0.94	1.25	1.06	Adaptation – Praying Mantis			
Flounder	1.18	1.60	1.66	1.27	Flounder			
Kai Moana	9.67	11.74	10.95	3.08	Kai Moana			
Birds	2.20	3.15	3.11	1.91	Birds			
Dinosaurs	2.33	3.33	3.50	1.33	Dinosaurs			
Link Task 2	1.78	2.59	3.89	2.22	Link Task 2		2 - 2 - 1	
Link Task 3	12.93	13.15	14.82	4.14	Link Task 3			
Link Task 4	1.27	1.72	1.80	1.04	Link Task 4			
ink Task 5	4.05	5.52	5.72	2.59	Link Task 5			
Link Task 6	3.11	3.16	3.88	1.91	Link Task 6			
Link Task 7	2.23	3.21	4.28	2.26	Link Task 7			
ink Task 8	<i>5.77</i>	5.84	6.85	1.94	Link Task 8			
Dropping Coins	4.23	4.42	4.78	1.27	Dropping Coins		11 0	11 0
Mystery Wires	4.25	4.45	5.08	2.25	Mystery Wires			
How Does it Work?	6.41	6.59	8.69	3.09	How Does it Work?			
Vater Mix	2.67	3.08	3.18	1.12	Water Mix			
Dead Mouse	0.74	0.79	0.85	0.86	Dead Mouse			
String Ping	4.98	6.12	4.73	2.86	String Ping			
Flowing Electricity	5.88	6.63	6.90	1.80	Flowing Electricity			
Marbles in Water	5.38	5.83	6.97	1.80	Marbles in Water			
Wonderful Water	16 60	1671	17.16	1 45	Wonderful Water	-		
Travelling Trucks	16.48	16.71	17.16	1.45	Travelling Trucks			
Mixing Colours	6.22	8.21	7.97	2.80	Mixing Colours	-		~
Link Task 9	3.35	3.47	3.24	1.07	Link Task 9			
Link Task 10	2.97	4.17	3.78	2.31	Link Task 10			
Link Task 11	2.46	2.80	3.10	1.60	Link Task 11			
Link Task 12	2.08	3.39	3.03	1.59	Link Task 12			
Link Task 13	1.94	1.88	1.97	1.11	Link Task 13			
Link Task 14	2.53	2.40	2.38	1.36	Link Task 14			
Link Task 15					Link Task 15			
Link Task 16					Link Task 16			
Candles in Jars	0.39	0.63	1.15	0.98	Candles in Jars	•	•	•
Rods	4.94	5.05	5.13	0.95	Rods			
Disappearing Water	1.08	1.95	2.03	1.28	Disappearing Water	Disappearing Water 3.91		
Chemical Muddle					Chemical Muddle			
Sugar Solutions	1.87	1.80	2.21	1.20	Sugar Solutions			
Balancing Balloons	1.39	1.65	2.38	1.20	Balancing Balloons			
Link Task 17	1.70	2.38	2.33	1.42	Link Task 17			
Link Task 18	0.95	1.62	1.74	1.05	Link Task 18			
Link Task 20	1.00	4 40	1.60	0.6=	Link Task 20	· -		
Environmental Issues	1.30	1.10	1.62	0.65	Environmental Issues			
Natural Disasters	0.52	0.67	1.21	1.14	Natural Disasters			
Vege Peelings	0.69	0.83	0.87	0.92	Vege Peelings			
Rocks	4.13	5.37	4.95	1.84	Rocks			
Night Sky					Night Sky			* .
Changing Faces of the Moon					Changing Faces of the Moon			
Daytime – Night time					Daytime – Night time			
Sand Dunes	1.83	2.13	2.08	1.23	Sand Dunes			
Underground	5.92	7.26	7.08	1.86	Underground			
Space Address	4.82	5.29	5.78	1.91	Space Address			
Link Task 22	0.33	0.53	0.56	0.65	Link Task 22			
Link Task 23	<i>5.31</i>	7.41	8.69	4.35	Link Task 23			
	0.70	1.33	1.54	1.22	Link Task 24	Link Task 24 1.33	Link Task 24 1.33 0.96	
Link Task 24	0.70							
Link Task 24 Link Task 25	1.45	2.28	2.88	1.72	Link Task 25	Link Task 25	Link Task 25	Link Task 25

Note: Statistically significant (p<.05) differences are shown: *lower* or higher.