Te Wai Tōmiti — Disappearing Water

Approach: Station

Focus: Explanation of evaporation and understanding of the water cycle.

Resources: Video showing evaporation with hand fanning and use of a hair dryer.

Questions/instructions:

In this activity you are going to watch a video clip showing people cleaning a blackboard, then answer some questions about what you saw happening in the video.

Watch the video and then answer these questions. You may replay the video if you need to. I tēnei mahi e mātakitaki ana koutou i tētahi rīpene ataata poto o ngā tāngata e ūkui ana i te papatuhituhi, kātahi ka whakautu i ngā pātai o ngā mahi i kite koutou.

Mātakitaki i te ataata, ā, ka whakautu i ēnei pātai. Me whakaatu anō te rīpene ataata mehemea koutou e hiahia ana.



Two squares were marked on the blackboard. One was dried using fanning (left) one was dried using a hair dryer (right).



1. Why did fanning the wet blackboard help it to dry?	% resp GEd	bonses MI	4. Now think abo Where does th
He aha i maroke ai te papatuhituhi i te			dries out?
tāwhiritanga?			Nā, whakaaro
fanning moves moist air away from the blackboard to allow			hīkoi. Ka ngaro te hōpuapua?
more to evaporate	0	0	both
mentions wind and/or water	0	10	
vapour and/or evaporation	9	12	
mentions wind or air movement only	63	79	
			5. The water that
			may come from
2. The hairdrier uses heat as well as fanning.			far away. Expla
Why did the heat dry the blackboard			You can draw
faster?			help explain y
He mahana, he tāwhiri ngā whakamahinga			Tērā pea ko te puta kē mai i t
o te whakamaroke makawe. He aha i tere			Whakamārama
ake ai te maroke o te papatuhituhi i te mahana?			Tāngia he hoal
			whakamārama
mentions increased warmth	-0	21	
helping evaporation	50	34	
			Bridgeric Bridgeric
3. Where does the water go as the black- board dries?			Eug Martin
Ka tōmiti te wai ki hea i te wā e maroke			Summer
haere ana te papatuhituhi?			a tenthinto ave claud
evaporation or equivalent			With the C
(eg. "into the air")	50	40	

out a puddle on the footpath. % responses he water go when the puddle GEd MI ki tētahi hōpuapua i te ara o te wai ki hea ina tōmiti ai n in to the air and the ground 9 2 into the air/sky 46 40 into the ground 30 30 t falls as rain in one place m another place that is lain how this happens. a diagram with labels to our answer. e ua o tētahi wāhi i tētahi wāhi pāmamao. atia he aha i pēnā ai? ahoa, me ōna tapa, hei a i tō whakautu. Includes all three aspects: water evaporation



Commentary:

Overall, the performances of GEd (General Education) and MI (Māori Immersion) students were not statistically significantly different.