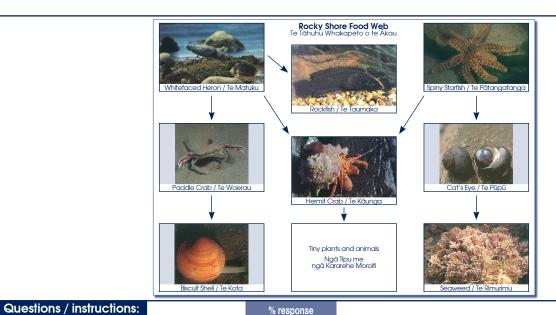
Trend Task:

Approach: One to one
Focus: Understanding food web dynamics
Resources: Food web picture

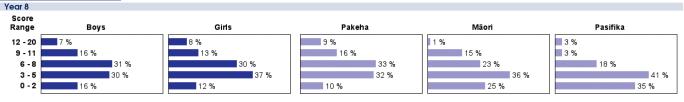
Food Web



illustration's sourced from:
Paddle Crab, Caff Eye, Saa Biscuit —
Enderby, J., Enderby, T. (Iphoto.); Stace, G. (1997).
Wharfs on the Beach? Auckland: Penguin Books.
Seaweed —
Enderby, J., Enderby, T. (Iphoto.); Stace, G. (1998).
Wharfs on the Rocks? Auckland: Penguin Books.
Hermit Crab, Staffish, Heron, Rocklish —
Gray, P. (Iphoto.), Gray, P. (1997). New Zealand Rocky
Shore, Alexandria: Central Chage Education Centre.

% response 2007 ('03) % response 2007 ('03) year 8 year 8 Here is a food web that shows what 4. What are some things that the cat's eye animals on the rocky shore eat. does to stop other animals eating it? 1. What eats the seaweed? Cat's Eye 82 (85) hides in its shell 76 (82) hides in crevices 6 (6) 2. What could happen to the other animals if most of the hermit crabs 10 (12) camouflages itself got sick and died? 28 (36) sucks onto rocks less food for whitefaced heron 36 (30) 5. What are some things that the paddle crab does to stop other animals less food for spiny starfish 37 (32) eating it? more tiny plants and animals 9 (4) 17 (18) hides in crevices whitefaced heron eat more rockfish 10 (10) uses pincers 79 (72) whitefaced heron eat more 12 (13) 31 (32) paddle crab moves away spiny starfish eat more cat's eye 12 (9) camouflages itself 23 (32) 3. What could happen to the other animals if more whitefaced heron started feeding at the rocky shore? **Total score:** 7 (6) 12 - 20less rockfish 41 (40) 9-11 15 (13) 41 (42) less paddle crab 6-8 30 (41) less hermit crab 38 (34) 3-5 34 (29) more biscuit shell 0 - 214 (11) more tiny plants and animals 5 (6)

Subgroup Analyses:



Commentary:

Only about one quarter of year 8 students showed strong understanding of this food web. There was no evidence of meaningful change between 2003 and 2007.