

Approach: Station
 Focus: Investigating and evaluating design
 Resources: Picture

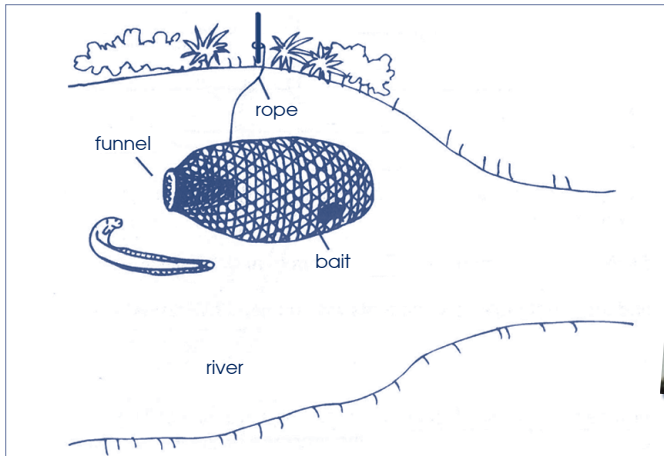
Year: 8

Questions / instructions:

Look at the picture of the eel.

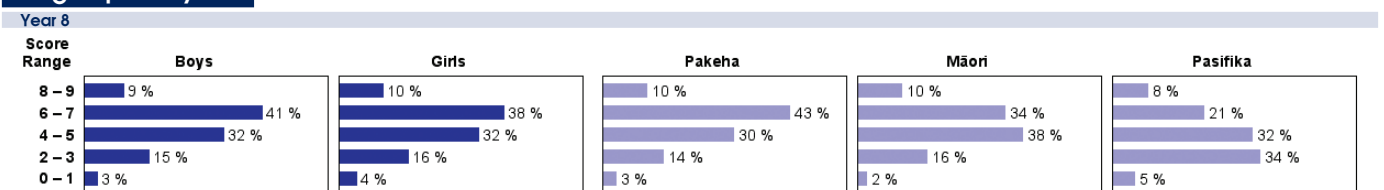
Eels are a type of fish but they look a bit like a snake. They are slippery. They eat fish, bugs or meat. Eels live in rivers and streams.

1. Draw arrows to parts of the eel trap that make it a good eel trap.
2. Beside each of your arrows write how that part of the trap makes it a good eel trap.



	% response 2008 ('04)	year 8	% response 2008 ('04)	year 8
Rope: <i>(to hold trap in place)</i>				
identified and explained		49 (61)	identified and explained	74 (70)
not identified, but explained		2 (2)	not identified, but explained	3 (1)
identified (arrow drawn)		20 (16)	identified (arrow drawn)	8 (10)
Funnel: <i>(to let eel in but not out)</i>			Netting: <i>(see or smell bait/keep eels inside/ allow water to flow through)</i>	
identified and mentioned trapping effect		31 (27)	identified and explained	22 (22)
not identified, but mentioned trapping effect		1 (2)	not identified, but explained	0 (0)
identified and mentioned lets eels in		38 (44)	identified (arrow drawn)	5 (10)
not identified, but mentioned lets eels in		4 (6)		
identified only, no adequate explanation		10 (10)	Total score:	8-9: 10 (10)
			6-7: 40 (49)	
			4-5: 32 (27)	
			2-3: 16 (12)	
			0-1: 3 (2)	

Subgroup Analyses:



Commentary:

Most students had a basic understanding of how the eel trap worked and could explain some of the essential features of the trap. There were minimal gender differences in performance, nor much change from 2004 to 2008.