

Approach: One to one

Year: 4 & 8

Focus: Managing resources

Resources: Video on laptop computer, headphones



DESCRIPTION AND VOICEOVER (NEMP SCRIPTED):

(detailed shots of the processing plant on a commercial fishing vessel.)

A lot of fish can be caught from this boat. All of the processing of the fish is done in the factory on the boat.

The tails and heads are chopped off. The machines can be changed to suit the different types of fish that are caught from the boat. The fish are sliced and filleted by the machines. The skins are removed as they stick to the ice-cold rollers.

A lot of people live and work on the boat. They stay on the boat for about six weeks at a time.

These people are working together on the production line. They work in teams to keep the fish factory going day and night. They slice the fish ready for weighing and packaging. The fish is frozen and stored on the boat until it is unloaded at a port.

Questions / instructions:

This activity uses the computer.

You are going to watch a video about a fish factory. The fish factory is on a large New Zealand fishing boat.

Click on the **Fishing** button. Ask the following questions after the student has seen the video.

1. How do the machines help the people with their work?

machines do parts of the processing faster than people could do them

machines do jobs that would be risky for people (e.g. likely to cause injury, OOS (Occupational Overuse Syndrome))

machines do tasks that are very repetitive/boring/unpleasant

machines keep going when people would get tired

machines do some tasks more consistently/accurately/hygenically than people would tend to do them

2. What are the important things that people need to do for the fish factory to work well?

start their shift on time/punctuality, be there for whole shift

do their own job carefully/thoroughly/safely

keep up with the required pace of work

work/relate well with other workers

maintain and repair the machines to keep them working

% response
2008 ('04)
year 4 year 8

27 (27) 43 (39)

1 (4) 2 (2)

9 (7) 9 (10)

3 (6) 4 (1)

17 (14) 20 (19)

4 (4) 8 (5)

14 (13) 23 (24)

14 (19) 20 (19)

32 (31) 48 (43)

12 (7) 17 (14)

3. What are the advantages and the disadvantages of having a fish factory out at sea? Tell me the advantages, or good things, first.

immediate processing to keep fish fresh

less wasted time travelling out to and in from fishing areas

more fish can be caught

4. Now tell me the disadvantages, or not so good things, about having a fish factory out at sea.

workers miss friends/family

workers miss activities they would do if home

problems getting on with other workers can be serious because they are constantly together

serious equipment failure can cause greater problems/delays

Overall, student understood and explained the advantages and disadvantages:

very well

quite well

moderately

poorly

Total score: 5-20

4

3

2

0-1

% response
2008 ('04)
year 4 year 8

21 (20) 46 (35)

20 (27) 30 (30)

22 (33) 25 (33)

7 (4) 29 (26)

2 (0) 5 (5)

1 (3) 2 (1)

10 (12) 7 (9)

0 (0) 0 (0)

2 (1) 8 (9)

15 (20) 30 (34)

83 (80) 62 (57)

13 (11) 37 (32)

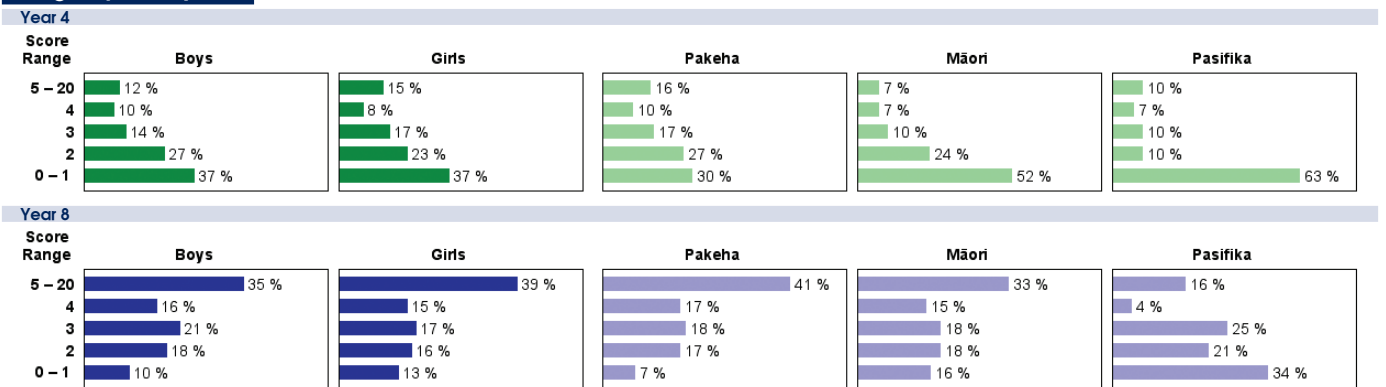
9 (15) 15 (15)

16 (24) 19 (24)

25 (18) 17 (13)

37 (33) 12 (17)

Subgroup Analyses:



Commentary:

This task asked students to discuss a video they saw on a commercial fish processing boat. Substantial growth in the ability to do this was seen from year 4 to year 8 although, even at year 8, most students had difficulty with the task. Gender differences were minimal; Pakeha students were more successful on the task than Pasifika or Māori students. Performance was similar to 2004.