# Trend Task: Spud Grub

| Approach:  | Team  | Task                                     |
|------------|---|--|
| Focus:     | Conserving resources and problem solving      |  |
| Resources: | Video recording on laptop computer, photo [su | bstitute image shown], team answer sheet |

NEMP

## Questions / instructions:

#### This activity uses the computer.

This activity is about a serious problem for New Zealand. We'll start by watching a video.

in New

plants.

#### Click the Spud Grub button.

[Still shot only of spud grub.]

Imagine that the spud grub is in the area where you live. Your team has been asked to think through the problem. To help, you will have a worksheet for writing down your ideas. Before you write them down, you will need to talk about things together, then write down what you all agree with.



This grub breeds very, very quickly. In a short time there could be thousands and thousands of them. Just now, the grub is only in one part of New Zealand, but it could soon spread over the whole country.

The government wants to spray the part of New Zealand where the grub has been found. The spray kills the grub. The trouble is, it also causes cats and dogs to get very sick for about a month, but it doesn't kill them. The spray costs a lot of money, so the

government says the people in the area with the spud grub should pay for it. The people are NOT happy about that.

The people in the area are really upset about the idea of spraying. People in other parts of New Zealand are telling the government to get on with it - and the sooner the better

Here is the team answer sheet and these are the things you need to decide. [Answer sheet shows questions 1 and 2, as below, with spaces for three problems.

### Give students the photo [same as video above], team answer sheet, and read through each of the headings:

- 1. What are the problems?
- What could be done about each problem? 2.

When you have finished, I'll ask you to tell me about what you have decided.

#### Allow time.

Now it is time for you to tell me about what you have decided. If you think of any further ideas, I'll write them down on your team answer sheet.

| Ducklaus 1.                            | % response<br>2009 ('05) |         |
|--|--------------------------|---------|
| Problem 1:                             | year 4                   | year 8  |
| grubs breed very quickly/are likely to |                          |         |
| spread around New Zealand quickly      | 0 (0)                    | 0 (2)   |
| grubs kill potato and kumara plants    | 22 (25)                  | 19 (22) |
| spray that kills grubs costs a lot     | 1 (2)                    | 7 (5)   |
| government does not want to pay        |                          |         |
| for the spray                          | 2 (8)                    | 7 (10)  |
| spray makes dogs and cats very sick    | 39 (32)                  | 43 (36  |
| people worry about effects of spraying | 18 (17)                  | 14 (12  |
| Problem described: very clearly        | 39 (45)                  | 43 (49) |
| moderately clearly                     | 43 (40)                  | 49 (39  |
|  |                          |         |

| % response<br>2009 ('05) |  |
|--------------------------|--|
| year 4                   | year   |
| 25 (25)                  | 48 (37   |
| 23 (13)                  | 38 (78   |
| 00 (10)                  | 00 (+0   |
| 31 (43)                  | 32 (20   |
| 69 (57)                  | 68 (80   |
|                          |  |
|                          |  |
| 1 (0)                    | 3 (0)  |
| 32 (23)                  | 35 (51   |
| 7 (3)                    | 6 (10)   |
|                          |  |
| 15 (18)                  | 15 (19   |
| 12 (17)                  | 14 (7)   |
| 13 (17)                  | 13 (5)   |
| 32 (35)                  | 44 (48   |
| 45 (47)                  | 47 (48   |
|                          |  |
|                          |  |
| 00 (17)                  | 20 /00   |
| 23 (17)                  | 30 (20   |
| 40 (40)                  | 49 (50   |
| 39 (43)                  | 51 (31   |
| 61 (57)                  | 49 (69   |
|                          |  |
|                          |  |
| 3 (3)                    | 3 (0)  |
| 17 (15)                  | 25 (14   |
| 6 (7)                    | 14 (12   |
| <b>C</b> (, )            | (.=  |
| 18 (18)                  | 14 (20   |
| 10 (10)                  | 14 (9)   |
| 19 (23)                  | 18 (24   |
|                          | 10 (21   |
| 29 (28)                  | 46 (44   |
| 43 (50)                  | 46 (39   |
|                          |  |
| 15 (10)                  | 20 (17   |
| 10 (10)<br>22 (10)       | 20 (17   |
| SS (40)                  | 39 (47   |
| 27 (33)                  | 52 (31   |
| 73 (67)                  | 48 (69   |
|                          |  |
| 12 (15)                  | 33 (19   |
| 24 (15)                  | 23 (22   |
| 18 (27)                  | 20 (21   |
|                          |  |
|                          | % res<br>2009<br>year 4<br>25 (25)<br>33 (43)<br>31 (43)<br>69 (57)<br>1 (0)<br>32 (23)<br>7 (3)<br>15 (18)<br>12 (17)<br>13 (17)<br>32 (35)<br>45 (47)<br>23 (17)<br>40 (40)<br>39 (43)<br>61 (57)<br>3 (3)<br>17 (15)<br>6 (7)<br>18 (18)<br>10 (10)<br>19 (23)<br>29 (28)<br>43 (50)<br>15 (10)<br>33 (48)<br>29 (28)<br>43 (50)<br>15 (10)<br>33 (48)<br>27 (33)<br>73 (67)<br>12 (15)<br>24 (15)<br>18 (37) |

32 (20)

0 - 4

9 (7)

Year: 4 & 8

## Commentary:

Year 4 and year 8 students were similar in their identification of the problems associated with the "spud grub", but year 8 students were better able to clearly describe multiple problems, and come up with solutions that were effective and/or creative. Year 4 students performed similarly in 2005 and 2009, but performance increased over this time period for year 8 students.