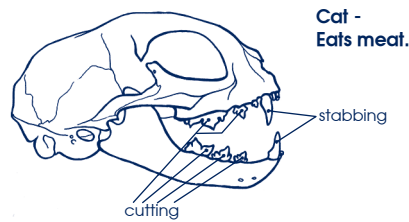
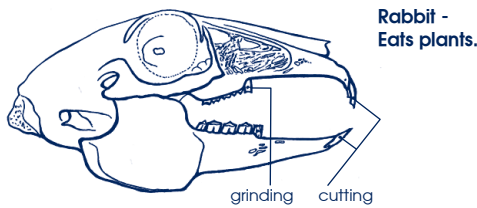


Approach: Station
 Focus: Adaptation
 Resources: Pictures in workbook

Year: 4 & 8



(Illustrations sourced from:
 Rabbit, Cat: Wenhan, M. (2001). 200 Science Investigations for Young Students, London: Paul Chapman Publishing Ltd.
 Dinosaur skulls: Creagh, C., Milner, A. (ed.) (1995). Dinosaurs, Sydney: Allen & Unwin.]

Questions / instructions:

Look at these dinosaur skulls. Write down what sorts of foods you think these dinosaurs ate - plants, or animals.



1. What it eats: **plants**
 How can you tell it eats this?

Explanation:
(grinding teeth; flat teeth (not sharp); teeth at back of mouth)

two or more valid reasons 1 (0) 5 (10)
 one valid reason 28 (35) 47 (52)
 alternatively explained as looking like rabbit teeth 2 (3) 5 (4)



2. What it eats: **meat**
 How can you tell it eats this?

Explanation:
(sharp/jagged/stabbing teeth, mixed sizes; teeth go right to front of mouth)

two or more valid reasons 1 (1) 3 (4)
 one valid reason 51 (59) 73 (74)
 alternatively explained as looking like cat teeth 2 (0) 3 (3)



3. What it eats: **plants**
 How can you tell it eats this?

Explanation:
(grinding teeth; flat teeth (not sharp); teeth at back of mouth)

two or more valid reasons 1 (1) 3 (5)
 one valid reason 39 (59) 56 (62)
 alternatively explained as looking like rabbit teeth 1 (2) 4 (2)



4. What it eats: **meat**
 How can you tell it eats this?

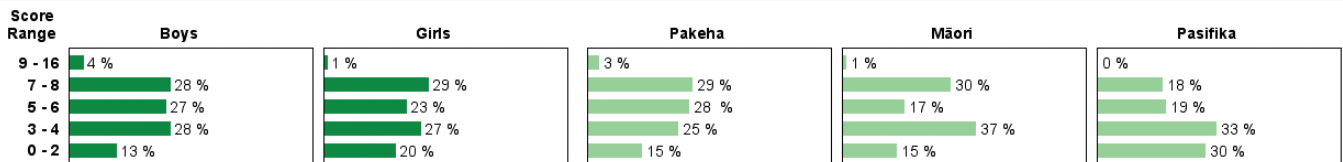
Explanation:
(sharp/jagged/stabbing teeth; mixed sizes; teeth go right to front of mouth)

two or more valid reasons 1 (1) 3 (3)
 one valid reason 47 (55) 72 (76)
 alternatively explained as looking like cat teeth 1 (3) 2 (2)

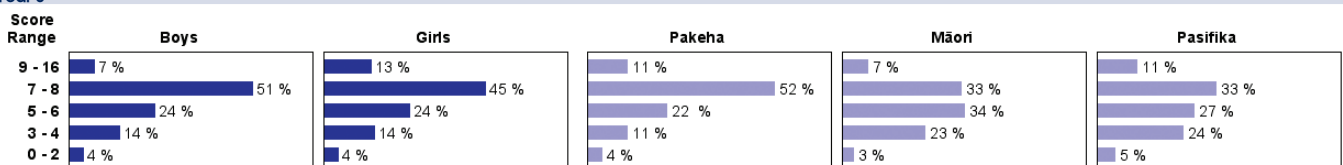
Total score: 9-16 3 (3) 10 (14)
 7-8 28 (41) 48 (54)
 5-6 25 (24) 24 (17)
 3-4 28 (24) 14 (11)
 0-2 16 (8) 4 (4)

Subgroup Analyses:

Year 4



Year 8



Commentary:

There was a moderate decline in performance between 2003 and 2007 for year 4 students, with little change for year 8 students. Year 4 Pakeha and Māori students performed similarly.