

## Wildlife is our responsibility

### Related outcomes

- N 3.5: A student selects and uses appropriate mental, written and calculator techniques to approximate and calculate solutions to problems involving whole numbers, money and decimal fractions.
- S 3.5: A student displays, reads and interprets a variety of graphs.
- WM 3.2: A student selects and uses appropriate problem solving strategies to complete investigations.
- WM 3.6: A student selects appropriate technology and uses it to help carry out mathematical investigations.
- M 3.5: A student measures and records the mass of objects to the nearest gram.
- VA 14: A student appreciates how mathematics is used in a range of aspects of society.
- VA 15: A student appreciates the contribution of mathematics to our society.

### Possible indicators

- A student can:
- solve realistic money problems
  - construct and interpret column graphs
  - make simple statements about data in graphs
  - record mass in grams.

### Syllabus links

Space	Graphs 4, 5, 6
Measurement	Mass 13, 14
Number	Money 6 Multiplication 11

### Teaching activity

1. Ask students to brainstorm possible reasons why many of Australia's animal species are endangered. Possible reasons might include: change to the native habitat of the animal (e.g. clearing of tropical rainforests, destruction of wetlands, polluting waterways); introduction of foreign species; over-hunting; and introduction of certain chemicals into the environment. A useful Internet site on endangered animals is: [www.ozemail.com.au/~surfing/raymond/indanger.htm](http://www.ozemail.com.au/~surfing/raymond/indanger.htm)
2. In pairs, students identify an endangered animal that could be sponsored at the zoo. In pairs, they investigate the animal's diet and the quantity of various food products it consumes in a day.
3. Students determine
  - the amount of food it would consume in a day, week, month and year
  - the associated costs of food for a day, week, month and year.
4. Feeding costs are graphed and comparisons made between different animals.

## Language

cost, per day, per week, per month, per year, kilogram, tonne, mass

## Equipment

resource materials, including information packs from Taronga Zoo