

## Today's weather

### Related outcomes

- WM 3.2: A student selects and uses appropriate problem solving strategies to complete investigations.
- S 3.5: A student displays, reads and interprets a variety of graphs.
- M 3.6: A student estimates, measures and records temperatures of objects and materials in degrees Celsius.
- 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.
- VA 4: A student demonstrates the confidence to apply mathematics and to seek and gain knowledge about the mathematics they needed from a variety of sources.
- VA 18: A student appreciates the impact of mathematical information on daily life.

### Possible indicators

- A student can:
- measure and graph changes in temperature
  - calculate differences in temperature using degrees Celsius
  - organise data into a graph.

### Syllabus links

Space                      Graphs 4  
Measurement            Temperature 7

### Teaching activity

1. On Arbor Day, discuss the importance of trees and how they meet many of our daily needs. Discuss the benefits associated with trees, including the provision of shade and its effects on temperature and comfort, and the absorption of greenhouse gases.
2. Each hour, select a pair of students to measure the temperature in a shaded area and in a sunny area of the school. The thermometers should be shaded from direct sunlight, otherwise incorrect readings will result. The thermometers should remain in the two areas for the duration of the activity.
3. These students record the information onto two separate column graphs.
4. As a class, compare the graphs and draw conclusions.

### Language

degrees Celsius, temperature, graph

### Equipment

thermometers