

# The Periodic Table

# Year 10-11

This hands-on trip around the periodic table will give students a chance to manipulate elements, explore their properties and examine the patterns and trends in the table. The program is particularly suited to unit one of the VCE chemistry study design, but is also available to classes of advanced year 10 students

Students are given unlabeled samples selected from the following elements. They will measure some of their physical and chemical properties, and then identify their samples by examining periodic trends in these properties.

- Carbon
- Aluminium
- Titanium
- Manganese
- Cobalt
- Copper
- Gallium
- Molybdenum
- Tin
- Hafnium
- Lead
- Magnesium
- Silicon
- Vanadium
- Iron
- Nickel
- Zinc
- Germanium
- Indium
- Tellurium
- Tungsten
- Bismuth

In addition, helium, sodium, chlorine, iodine, xenon and mercury are displayed or used in demonstrations.

The program gives students a chance to safely handle elements that they may not otherwise have a chance to see. Every part of this program has been thoroughly tested, and risk assessments were completed in conjunction with the safety officer and experienced secondary and tertiary teachers at the University of Melbourne's School of Chemistry.

The Chemical Education Association generously provided funds for the elements and apparatus used.

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**DETAILS:**

Year 11, 90 minute duration

Location	Cost per session	Maximum students per session	Minimum cost per day
School of Chemistry Melbourne University	\$200	30	n/a
At your school (Metropolitan)	\$245	30	\$490
At your school (Regional)	\$320	30	\$640

**Cost Structure:**

A 2-tier cost structure operates for VICS travelling programs. There is a cost per session and a minimum cost per day - whichever is the greater will apply.

VICS and CSIRO Education attempt to fit as much of a program into as few days as possible.

If a program runs for more than one day or with more than one presenter (because it will not fit into one day), a reduced minimum cost per day will apply for the second and subsequent days or presenters. The minimum cost per day for subsequent days is \$380 metro/\$530 regional.

If a school opts to spread their program over more days and/or with more presenters than necessary, the full minimum cost per day will apply for each day and presenter.

**Regional Schools:** Please call to discuss tour details and availability of programs.

**GST:** All prices listed above include 10% GST.

**PROGRAM REQUIREMENTS:**

- access to the presentation room 1 hour prior to the first session
- 10 tables or equivalent bench space
- 2 power points
- a sink
- enough space to comfortably sit 30 students
- students will need to bring a pen or pencil
- 6 lab coats

This program is best run in a science lab. One experiment requires access to a functioning fume hood – if unavailable, the program will proceed without this experiment.

**Bookings:** CSIRO Education, phone (03) 9252 6387, fax (03) 9252 6256.

**Further Information:** Mick Moylan, phone (03) 83446465, email [mmoylan@unimelb.edu.au](mailto:mmoylan@unimelb.edu.au)