

# Analytical Instruments

## Chemistry Unit 3

VICS analytical exercises in HPLC, Gas Chromatography, UV/Vis Spectrophotometry and Atomic Absorption Spectroscopy run in the analytical chemistry labs at RMIT, Melbourne and Monash Universities. The workshops assist students with VCE Chemistry Unit 3 and can be the basis of an extended investigation on analytical techniques.

Students will complete an analysis on one of the following instruments, examine the workings of a second instrument, and then complete a follow-up activity on IR and NMR spectrometry.

### **HPLC**

Students will determine the caffeine content of a soft drink

### **Gas Chromatography**

In this activity, the alcohol content of wine will be determined.

### **UV/Vis Spectroscopy**

The aim of this experiment is to measure the iron content of a common supplement tablet.

### **Atomic Absorption Spectroscopy**

The students will measure the amount of sodium in soy sauce or a sport drink.

### **DETAILS**

**Cost:** \$25 per student (including GST). Year 12, 3 hour duration.

RMIT University	9:00 – 12:00 or 1:00 – 4:00	15 – 19 February 2010
Melbourne University	9:00 – 12:00 or 1:00 – 4:00	15 – 19 February 2010
Monash University	9:00 – 12:00 or 1:00 – 4:00	15 – 19 February 2010

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

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