

## Titration of citric acid in juice: Overview

### Summary

St Ignatius College Geelong currently has a major inquiry and communication task in each of years 7-10, and there is desire to develop an inquiry and communication task involving the chemical sciences. While acid-base titrations are not part of the Victorian Curriculum F-10, there is a desire to introduce year 10 students to this technique, to better prepare them for VCE chemistry.

It is intended that the major inquiry and communication task would extend over several lessons, with students working in teams to produce a poster, communicating their inquiry and the results of that inquiry.

In this titration, students measure the citric acid content of different fruit juices.

### Curriculum Outcomes: Victorian Curriculum F-10

Levels 9 and 10

#### Science Understanding: Chemical sciences

- [Partial] Chemical reactions, including combustion and the reactions of acids, are important in both non-living and living systems and involve energy transfer (VCSSU126)
  - investigating reactions of acids with metals, bases, and carbonates

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