Fruit Juice Inquiry: Overview

Summary

Using the context of the health benefits of fruit juices, the Fruit Juice titration activity lies within a sequence of lessons in which students inquire into the composition of fruit juices. In the titration students measure the citric acid content of different fruit juices.

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.

Lesson 1	Investigation of the contents of citric juice	***Individually***
Lessons 2 – 3	Investigating how to test the acidity in citric juice	***Group***
Lessons 4 – 5	Carry out investigation	***Group***
Lessons 6 – 7	Completing the Scientific Poster	***Individually***

Curriculum Outcomes: Victorian Curriculum F-10

Levels 9 and 10

Science as a human endeavour

- [Partial] The values and needs of contemporary society can influence the focus of scientific research (VCSSU116)

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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