





The Year 12 Depth Study 'Making Medicines: Chemical synthesis and medicine development' aims to engage students in the process of designing and optimising the characteristics of compounds for medicinal use.

This depth study consists of online lesson plans and resources and a capstone excursion to the UNSW Chemistry laboratories.

In this capstone excursion, students will engage with authentic organic synthesis, making a variety of non-toxic aspirin and paracetamol derivatives, and then characterizing them by NMR and IR in a guided analysis workshop.

They will also have the opportunity to engage directly with researchers to discuss science, coming to university, and future careers.

This depth study links current research, including by UNSW researchers, with the HSC syllabus and is designed to bridge the gap between high school and university science.

The full day experience offers:

- x an introduction to university synthesis and data analysis using information technology tools;
- x independent research components;
- x tours of the teaching labs and NMR facility; and
- x scaffolded "Speaking to a Scientist" sessions.

The 'Making Medicines: Chemical synthesis and medicine development' depth study is a way to encourage passion in your students, skill development, and provide authentic information about university life and scientific career paths.