

# CHEMISTRY AND BIOLOGY SCHOOL PROGRAMS

## FREE WORKSHOPS, TOURS AND PRACTICALS

At Monash University Faculty of Pharmacy and Pharmaceutical Sciences, Medicines are the essence of our field. We want to support your students in understanding the role of chemistry and biology in the design and analysis of medicines with this suite of free workshops.

### FUNCTIONAL GROUPS AND CHIRALITY OF ORGANIC MOLECULES FOR YEAR 12 CHEMISTRY

In this engaging workshop, students learn about the role of key functional groups and chirality in medicines. Student will also explore the significance of structure as linked to solubility, metabolism and the specificity of intermolecular bonding to receptors.

- Best for groups of maximum 25
- At our Parkville campus or at your school
- 1-2hr sessions (flexible scheduling)

### CHEMISTRY OF MEDICINES FOR YEAR 10 SCIENCE

This accessible and interactive workshop gets students designing and understanding the structure of organic molecules as medicines. Students work in teams and use augmented reality to explore the important roles of Pharmacists and Pharmaceutical Scientists.

- Best for groups of maximum 25
- At our Parkville campus or at your school
- 1-2hr sessions (flexible scheduling)

### HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY FOR YEAR 11 AND 12 CHEMISTRY

This workshop is a fantastic opportunity for VCE Chemistry students to use real HPLC instruments and software. Students will be taught how to use our HPLC instruments and then design and perform their own quantitative analysis for caffeine in common beverages.

- Best for groups of maximum 20
- At our Parkville campus
- 3hr session (flexible scheduling)

### INTRODUCTION TO EXTENDED INVESTIGATIONS FOR YEAR 11 CHEMISTRY AND BIOLOGY

During this excursion, students explore the key principals in designing a scientific investigation. They will revisit ideas around validity and reliability, how to design fair tests and prepare a scientific poster. Students will also design and conduct a practical as practice for their own project in AOS3.

- Best for groups of maximum 25
- At our Parkville campus
- Full day program, 9am- 2pm (flexible scheduling)

### RATIONAL DRUG DESIGN FOR YEAR 12 BIOLOGY

This workshop explores the importance of rational drug design by looking at the action of antibiotics and antivirals and the occurrence of drug resistance. Students also learn about the development of Relenza and get to discuss research in the area of drug design with a current PhD candidate.

- Best for groups of maximum 25
- At our Parkville campus or at your school
- 1hr sessions (flexible scheduling)

### SPECTROSCOPY TOUR FOR YEAR 12 CHEMISTRY

In this tour, students get the chance to see real NMR and Mass-Spec instruments in action.

- Best for groups of maximum 25
- At our Parkville campus
- 1.5hr (flexible scheduling)

### Contact Us

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