

## MON 28TH SEPTEMBER

ENGLISH 1	11:00am - 12:30pm
CHINESE SL	12:30pm - 3:00pm
ENGLISH 2	3:30pm - 5:00pm
CHEMISTRY 1	3:30pm - 5:00pm

## TUES 29TH SEPTEMBER

ENGLISH 3	9:00am - 10:30am
ITALIAN	9:00am - 11:30am
PSYCHOLOGY 1	12:30pm - 2:30pm
CHEMISTRY 2	3:30pm - 5:00pm

## WEDS 30TH SEPTEMBER

FURTHER 1	9:00am - 10:30am
ITALIAN *	9:00am - 11:30am
FURTHER 2	2:30pm - 4:00pm
CHEMISTRY 3	2:30pm - 4:00pm

## THURS 1ST OCTOBER

FURTHER 3	9:00am - 10:30am
JAPANESE SL	11:00am - 1:30pm
SPECIALIST 1	2:30pm - 4:00pm
CHEMISTRY 4	2:30pm - 4:00pm

## FRI 2ND OCTOBER

FURTHER 4	9:00am - 10:30am
SPECIALIST 2	12:00pm - 1:30pm
GERMAN	12:00pm - 3:00pm
CHINESE SL *	2:00pm - 4:30pm
BIOLOGY 1	2:00pm - 4:00pm
CHEMISTRY 5	2:30pm - 4:00pm

## SAT 3RD OCTOBER

METHODS 1	9:00am - 11:00am
FURTHER 5	9:00am - 10:30am
INDONESIAN SL	9:00am - 11:30am
METHODS 2	12:00pm - 2:00pm
ENGLISH 1 *	12:00pm - 1:30pm
FRENCH	2:00pm - 4:30pm
PSYCHOLOGY 2	3:00pm - 5:00pm
SPECIALIST 3	3:00pm - 5:00pm

## SUN 4TH OCTOBER

FURTHER 6	9:00am - 10:30am
PHYSICS 1	9:30am - 11:00am
GERMAN *	10:00am - 1:00pm
PHYSICS 2	12:00pm - 1:30pm
PSYCHOLOGY 3	12:00pm - 1:30pm
ENGLISH 2 *	1:00pm - 2:30pm
BIOLOGY 2	3:00pm - 5:00pm
METHODS 3	3:00pm - 5:00pm
ENGLISH 3 *	3:30pm - 5:00pm

## MON 5TH OCTOBER

CHEMISTRY 3 *	5:00pm - 6:30pm
PSYCHOLOGY 4	5:00pm - 6:30pm

## TUES 6TH OCTOBER

SPECIALIST 4	5:00pm - 7:00pm
FURTHER 3 *	5:00pm - 6:30pm
PSYCHOLOGY 5	5:00pm - 6:30pm

## WEDS 7TH OCTOBER

SPECIALIST 3 *	5:00pm - 7:00pm
BIOLOGY 3	5:00pm - 7:00pm

## THURS 8TH OCTOBER

METHODS 1 *	5:00pm - 7:00pm
PSYCHOLOGY 3 *	5:00pm - 6:30pm

## FRI 9TH OCTOBER

BIOLOGY 4	5:00pm - 7:00pm
PHYSICS 3	5:00pm - 6:30pm
FURTHER 4 *	5:00pm - 6:30pm

## SAT 10TH OCTOBER

METHODS 2 *	9:00am - 11:00am
PHYSICS 1 *	9:30am - 11:00am
PSYCHOLOGY 4 *	9:30am - 11:00am
PHYSICS 2 *	12:00pm - 1:30pm
BIOLOGY 3 *	12:00pm - 2:00pm
FRENCH *	2:00pm - 4:30pm
CHEMISTRY 4 *	3:00pm - 4:30pm
FURTHER 5 *	3:00pm - 4:30pm

## SUN 11TH OCTOBER

PSYCHOLOGY 5 *	9:00am - 10:30am
PHYSICS 3 *	9:00am - 10:30am
INDONESIAN SL *	9:00am - 11:30am
SPECIALIST 4 *	10:30am - 12:30pm
FURTHER 6 *	10:30am - 12:00pm
METHODS 3 *	1:00pm - 3:00pm
JAPANESE SL *	1:00pm - 3:30pm
BIOLOGY 4 *	3:00pm - 5:00pm
CHEMISTRY 5 *	3:30pm - 5:00pm

## ADDITIONAL INFORMATION

Register at <https://events.humanitix.com/end-of-year-swot-week-2020>

All sessions with an asterisk (\*) are an exact repeat of the previous session with the same name. For example: **Biology 3\*** covers the same content as **Biology 3**. Not all sessions have repeat sessions, so please check the timetable carefully.

Sessions 1, 2, 3, etc of a subject cover different content (see page 2 for details) and are independent; you do not have to sign up for all sessions, nor must you attend Session 1 before going to 2 or 3. Don't sign up for more than 1 class running at the same time - you will only be able to attend one. Classes will run over Zoom; the session link will be sent to you via email a day before the class.

If you have any questions, check the FAQs or please feel free to email us at [swot@muhi.org.au](mailto:swot@muhi.org.au)



Faculty of  
Medicine,  
Dentistry and  
Health Sciences



# ENGLISH

## ENGLISH 1

**Argument Analysis:** In this session, students will be involved in three different workshops that are designed to demonstrate the skills of annotations, essay structure and authorial purpose.

## ENGLISH 2

**Text Response:** In this session, students will learn how to develop an essay contention, compare themes and decipher the author's message.

## ENGLISH 3

**Comparative:** In this workshop, students will gain an understanding of how to approach a comparative essay topic, how to structure each paragraph and what makes an interesting, erudite comparison.

# PHYSICS

## PHYSICS 1

This session will cover fields and interactions, effects of fields, application of field concepts and special relativity.

## PHYSICS 2

This session will cover generation of electricity, transmission of electricity, Newton's laws of motion and relationships between force, energy and mass.

## PHYSICS 3

This session will cover Unit 4 content, which includes properties of mechanical waves, light as a wave, behaviour of light, matter as particles or waves and similarities between light and matter.

# FURTHER

## FURTHER 1

**Data and statistics:** describing and summarising data, association between two variables, regression, data transformation, time series data and data analysis.

## FURTHER 2

**Financial modelling and recursion:** modelling growth and decay using recursion, analysing annuities and reducing-balance loans, financial modelling, and using the finance solver.

## FURTHER 3

**Matrices:** matrix arithmetic (addition, subtraction, and multiplication), types of matrices, matrix powers, using matrices to solve simultaneous linear equations, and applications of transition matrices.

# METHODS

## METHODS 1

**Functions and graphs:** this session will focus on the basics of functions and their properties, such as domain and range; and also concepts such as composite, inverse, power, polynomial, exponential, logarithmic and circular functions; and applications of geometry and transformations.

## METHODS 2

**Calculus:** this session will culminate the study of functions, graphs and algebra as we analyse them further through differentiation, integration and their various applications.

## METHODS 3

**Probability:** this session will be analysing the Bernoulli, Binomial and Normal Distributions and their various properties and applications. Note: Due to the COVID-19 pandemic, statistical inference will not be covered.

# BIOLOGY

## BIOLOGY 1

This session covers AoS1 & AoS3: plasma membrane, nucleic acids, proteins, post-transcriptional modifications, genes and gene regulation, enzymes, photosynthesis, cellular respiration, and practical investigation.

## BIOLOGY 2

This session covers immunity (AoS2) which includes, signals, responding to antigens, and immunity applications.

## BIOLOGY 3

This session covers evolution (changes in genetic makeup of a population, changes in biodiversity over time, molecular homology, phylogenetic trees, human change over time).

## BIOLOGY 4

This session covers DNA manipulation, social implications, exam prep, and revision (for evolution/unit 4: analysing how questions are written).

# LOTE

All LOTE sessions cover AoS 1, 2 and 3 for both Units 3 & 4. We cover: key grammatical content, learning about some conversational and written strategies that showcase your language skills and abilities, preparing for end-of-year written and oral examinations, and understanding how to really answer those pesky examination questions (and impress your examiners whilst doing so!)

# PSYCHOLOGY

## PSYCHOLOGY 1

This session covers stress and the nervous system from VCE Unit 3.

## PSYCHOLOGY 2

This session covers learning and memory from VCE Unit 3.

## PSYCHOLOGY 3

This session covers sleep and consciousness from VCE Unit 4.

## PSYCHOLOGY 4

This session covers mental well-being from VCE Unit 4.

## PSYCHOLOGY 5

This session covers research methods.

## FURTHER 4

**Networks:** travelling and connecting problems through graphs, networks and trees. As well as flow, matching and scheduling problems.

## FURTHER 5

**Geometry:** measurement, Pythagoras' Theorem, areas, volumes, and similarity. Applications of geometry including the sine and cosine rule and finding the area of a triangle. Spherical geometry including the measurement of circles and spheres, latitude and longitude, and time zones.

## FURTHER 6

**Graphs and relations:** this includes constructing and analysing linear and non-linear graphs, linear models, simultaneous equations and linear representations of non-linear relations.

# SPECIALIST

You will be divided into break out rooms with a couple of our friendly tutors as you rotate through the topics. Our tutors will take you through a tutorial with a few exam-style questions.

## SPECIALIST 1

This session will cover the Unit 3 topics of vectors and complex numbers.

## SPECIALIST 2

This session will cover the Unit 3 topics of circular functions and calculus.

## SPECIALIST 3

This session will cover dynamics, kinematics and vector functions.

## SPECIALIST 4

This session will cover differential equations and applications of integration.

# CHEMISTRY

## CHEMISTRY 1

**Chemical and electrical energy:** obtaining energy from fuels, fuel choices, galvanic and fuel cells as a source of energy, production of chemicals by electrolysis and rechargeable secondary cells.

## CHEMISTRY 2

**Rates and equilibrium:** rates and extent of chemical reactions.

## CHEMISTRY 3

**Organic compounds 101:** the structure, nomenclature, categories, properties and reactions of organic compounds.

## CHEMISTRY 4

**Analysis of organic compounds:** the principles and application of infrared spectroscopy, proton and carbon-13 nuclear magnetic resonance, chromatography and volumetric analysis.

## CHEMISTRY 5

**Food chemistry and practical investigation:** key food biomolecules, metabolism of food in the human body, the energy content of food products and the key knowledge of practical investigation and experimental design.