

VCE Masterclasses

Upcoming:

Subject	Masterclass details	Date & Time	Duration	Presenter	Delivery	Link
Biology Unit 4 AoS1 How are species related?	This session will focus on bioinformatics to show species relationships and how DNA and genomic sequencing has helped scientists discover relatedness between species both past and present and its influence on evolution.	Tuesday 31 st August, 2021	90 mins	Manny Cassiotis	WebEx	https://earthed.vic.edu.au/vce-masterclass/aos1-how-are-species-related/
Biology Unit 4 AoS 2 How do humans impact on biological processes & exam revision	Students will be shown a variety of issues and laboratory investigations for discussion and response.	Tuesday 28 th September, 2021	90 mins	Manny Cassiotis	WebEx	https://earthed.vic.edu.au/vce-masterclass/aos2-how-do-humans-impact-on-biological-processes/

Recorded Masterclasses:

Subject	Masterclass Details	Duration	Presenter	Recording link	Documents
Biology Unit 3 AoS 3 Experimental design SAC	Typically, schools set a generic question like “what factors affect the rate of enzymes?” and students are asked to develop specific questions relating to their experimental design. This session will help students gather their ideas and thought processes while drawing links between the factors that affect enzyme reaction rates and how to formulate good design and testable hypotheses.	90 mins	Manny Cassiotis	You can watch the recording of this masterclass via the link below: https://youtu.be/nOOPRwXzBDw	The associated documentation for this presentation can be downloaded via the below link: https://drive.google.com/file/d/1j-WR_yhQk_JBKDanFRTGcAMcZ_YCtZmo/view?usp=sharing
Biology Unit 3 AoS 2 Hoe do cells communicate?	Students will reflect upon the key features of sources and modes of various signalling molecules which include plant and animal hormones, neurotransmitters, cytokines and pheromones. We will review hydrophilic and hydrophobic signalling pathways and apoptosis and deviant cell behaviour leading to cancer. Exam questions will be provided with model solutions.	90 mins	Manny Cassiotis	You can watch the recording of this masterclass via the link below: https://youtu.be/ZegHKFCjAJ0	The associated documentation for this presentation can be downloaded via the below link: https://drive.google.com/file/d/1OSJuK1bMqiuuOCZypkchASnDjSSP8SR0/view?usp=sharing

Biology Unit 3 AoS 1 How do cellular processes work – photosynthesis and cellular respiration	Explore some of the more salient misconceptions from last year's exam with a strong emphasis on highlighting common pitfalls and how to avoid them. We will review photosynthesis and cellular respiration in order to summarise the key concepts of this area of study in preparation for SAC questions. Exam questions will be answered with model solutions.	90 mins	Manny Cassiotis	You can watch the recording of this masterclass via the link below: https://youtu.be/YzQs8JEiEO	The associated documentation for this presentation can be downloaded via the below link: https://drive.google.com/file/d/17yeQ97aIDOrxdUQQJ6PZBdgS5duhbJM/view?usp=sharing
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