

## A GTAC guide to teaching Unit 3 for the 2022 – 2026 VCE Biology SD

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We have allocated 16 weeks to teaching Unit 3 with 340 min/week. Note that this includes a continued focus on the key science skills (SD pages 7-9) and a focus on bioethical issues to get students practicing examinable skills in approaches to bioethics and principles for investigating ethical concepts (SD page 16 & 17). We also introduce key knowledge from Unit 4 ACS3 during Unit 3 to prepare students for their student-designed investigation. We have allocated a total of 32 teaching weeks across Units 3 and 4.

The [VCAA Curriculum and Assessment Authority \(VCAA\)](http://www.vcaa.vic.edu.au) provide the [template](http://www.vcaa.vic.edu.au) to support you to plan for curriculum delivery with a focus on how you will deliver key knowledge and key skills, and the activities you will use to provide appropriate opportunity for students to demonstrate satisfactory achievement of the outcome (5a%) and the assessment tasks that will be used to assess students level of achievement. Note that VCAA provide definitions for terms to support teaching the study design and associated assessment. This includes data and measurement on pages 14 and 15; ethical approaches and concepts on pages 16 and 17; errors, uncertainty and outliers on pages 16 and 17; and Aboriginal and Torres Strait Islander knowledge, cultures and history on page 14.

### Unit 3: How do cells maintain life?

- Area of Study 1 – What is the role of nucleic acids and proteins in maintaining life?

Outcome 1: Analyse the relationship between nucleic acids and proteins, and evaluate how tools and techniques can be used and applied in the manipulation of DNA. Draw on ACS1 key knowledge and related key science skills on SD pages 7 – 9.

- Area of Study 2 – How are biochemical pathways regulated?

Outcome 2: Analyse the structure and regulation of biochemical pathways in photosynthesis and cellular respiration, and evaluate how biotechnology can be used to solve problems related to the regulation of biochemical pathways. Draw on ACS2 key knowledge and related key science skills on SD pages 7 – 9.

### Assessment of levels of achievement

The student's level of achievement in Unit 3 will be determined by School-assessed Coursework. School-assessed Coursework tasks must be a part of the regular teaching and learning program and must not unduly add to the workload associated with that program. They must be completed mainly in class and within a limited timeframe. The VCAA publishes Support materials for this study, which includes advice on the design of assessment tasks and the assessment of student work for a level of achievement.

Teachers will provide to the VCAA a numerical score representing an assessment of the student's level of achievement. The score must be based on the teacher's assessment of the performance of each student on the tasks set out in the following table. The table can be used to support the allocation of an assessment task for each outcome.

# Study Guide Gtac 1

**Victor M. Corman**



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