



GCE A LEVEL

BIOLOGY

A400QS

Summer 2022 examinations

Component 1	Energy for life	Thursday, 9 June 2022
Component 2	Continuity of life	Friday, 17 June 2022
Component 3	Requirements for life	Friday, 24 June 2022

Advance Information

General information for students and teachers

This advance information provides the focus of the content of the summer 2022 examination papers.

It does not apply to any other examination series.

It is intended to support revision.

It may be used at any time from the date of release.

It must not be taken into the examination.

Subject information for students and teachers

A guidance document on advance information has been produced by The Joint Council for Qualifications (JCQ) on behalf of all awarding organisations. It can be found [here](#).

This advance information covers Component 1, Component 2 and Component 3. There is no advance information for the Practical Endorsement (NEA).

The following areas of content are suggested as key areas of focus for revision and final preparation, in relation to the Summer 2022 examinations.

It is advised that teaching and learning should still cover the entire subject content in the specification.

The format/structure of the papers remains unchanged.

Students and teachers should consider how to revise other parts of the specification, for example to review whether other topics may provide knowledge which helps understanding in relation to the areas being tested in 2022.

The list shows the major focus of each paper; the topic areas are listed in rank order, with the areas carrying the highest mark allocations at the top of each list.

Topics **not** explicitly given in the list may still appear in the paper (e.g. in synoptic questions where students are asked to bring together knowledge, skills and understanding from across the specification) but will not be allocated as many marks overall as those listed.

Assessment of core concepts, practical skills (Appendix A of the specification) and mathematical skills (Appendix C of the specification) will occur throughout the three papers.

Component 1

- 1.5 Population size and ecosystems (including specified practical work)
- 1.3 Respiration releases chemical energy in biological processes
- 1.2 Photosynthesis uses light energy to synthesise organic molecules
- 1.6 Human impact on the environment

Component 2

- 2.4 Sexual reproduction in plants (including specified practical work)
- 2.3 Sexual reproduction in humans
- 2.5 Inheritance
- 2.6 Variation and evolution
- 2.7 Application of reproduction and genetics

Component 3

- Option Choice of one from Options A-C
- 3.4 Homeostasis and the kidney (including specified practical work)
- 3.3 Adaptations for nutrition
- 3.1 Adaptations for gas exchange in animals
- 3.2 Adaptations for transport in animals
- 3.5 The nervous system
- 3.1 Adaptations for gas exchange in plants (including specified practical work)

End of advance information