

# Exam changes 2022– Combined Biology Higher Paper 1

The list below covers the major focus of the content of the exam, each paper may cover some, or all, of the content in the listed topic.

Topics not explicitly given in any list may appear in low tariff questions or via 'linked' questions. Linked questions are those that bring together knowledge, skills and understanding from across the specification. Students will still be expected to apply their knowledge to unfamiliar contexts.

## Paper 1

Specification code	Topics Included
4.1.2.1	Chromosomes
4.1.2.2	Mitosis and the cell cycle
4.1.2.3	Stem cells
4.2.2.1	The human digestive system
4.2.2.2	The heart and blood vessels
4.2.2.3	Blood
4.2.2.4	Coronary heart disease: a non-communicable disease
4.2.2.5	Health issues
4.2.2.6	The effect of lifestyle on some non-communicable diseases
4.2.2.7	Cancer
4.4.1.1	Photosynthetic reaction
4.4.1.2	Rate of photosynthesis

Required practical activities that will be assessed:

Required practical activity 3: use qualitative reagents to test for a range of carbohydrates, lipids and proteins.

Required practical activity 4: investigate the effect of pH on the rate of reaction of amylase enzyme.

Required practical activity 5: investigate the effect of light on the rate of photosynthesis of an aquatic plant such as pondweed.

# Exam changes 2022– Combined Biology Higher Paper 2

The list below covers the major focus of the content of the exam, each paper may cover some, or all, of the content in the listed topic.

Topics not explicitly given in any list may appear in low tariff questions or via 'linked' questions. Linked questions are those that bring together knowledge, skills and understanding from across the specification. Students will still be expected to apply their knowledge to unfamiliar contexts.

## Paper 2

Specification code	Topics Included
4.5.3.1	Human endocrine system
4.5.3.2	Control of blood glucose concentration
4.5.3.3	Hormones in human reproduction
4.5.3.5	The use of hormones to treat infertility
4.5.3.6	Feedback systems –Thyroxine and Adrenalin
4.7.2.1	Levels of organisation
4.7.2.2	How materials are cycled
4.7.3.1	Biodiversity
4.7.3.2	Waste management
4.7.3.5	Global warming
4.7.3.6	Maintaining biodiversity

### Required practical activities that will be assessed:

Required practical activity 7: measure the population size of a common species in a habitat. Use sampling techniques to investigate the effect of a factor on the distribution of this species.

### Useful Revision links:

Kerboodle: <https://www.kerboodle.com/app/courses/43091/modules/Resources>

Seneca:

<https://app.senecalearning.com/classroom/course/891f0540-1d79-11e8-a6da-15f18bba751c/section/6a5a0460-1d7a-11e8-a6da-15f18bba751c/session>

Save my exams:

<https://www.savemyexams.co.uk/gcse-combined-science-trilogy-biology-aqa-new/revision-notes/>

Cognito:

<https://www.youtube.com/c/Cognitoedu>

Bitesize:

<https://www.bbc.co.uk/bitesize/subjects/zp266yc>

Oak Academy:

<https://classroom.thenational.academy/subjects-by-key-stage/key-stage-4/subjects/combined-science/tiers/higher>

# Exam changes 2022– Combined Biology Higher

Please find below a list of topics that will NOT be appearing on the exams for each paper.

## Paper 1

Topics **not assessed** in this paper:

- 4.1.1.5 Microscopy
- 4.1.3 Transport in cells
- 4.2.3 Plant tissues, organs and systems
- 4.3.1.2 Viral diseases
- 4.3.1.4 Fungal diseases
- 4.3.1.5 Protist diseases
- 4.3.1.6 Human defence systems
- 4.4.1.3 Uses of glucose from photosynthesis
- 4.4.2.2 Response to exercise

## Paper 2

Topics **not assessed** in this paper:

- 4.5.2 The human nervous system
- 4.5.3.4 Contraception
- 4.6.1.1 Sexual and asexual reproduction
- 4.6.1.3 DNA and the genome
- 4.6.1.4 Genetic inheritance
- 4.6.1.5 Inherited disorders
- 4.6.1.6 Sex determination
- 4.6.2 Variation and evolution
- 4.6.3 The development of understanding of genetics and evolution
- 4.7.1.4 Adaptations
- 4.7.3.3 Land use
- 4.7.3.4 Deforestation