

Exam changes 2022– Combined Biology Foundation 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
4.2.2.5	Health issues
4.2.2.6	The effect of lifestyle on some non-communicable diseases
4.2.2.7	Cancer
4.3.1.1	Communicable (infectious) diseases
4.3.1.2	Viral diseases
4.3.1.3	Bacterial diseases
4.3.1.4	Fungal diseases
4.3.1.5	Protist diseases
4.3.1.6	Human defence systems
4.3.1.7	Vaccination
4.3.1.8	Antibiotics and painkillers
4.3.1.9	Discovery and development of drugs
4.4.1.1	Photosynthetic reaction
4.4.1.2	Rate of photosynthesis

Required practical activities that will be assessed:

Required practical activity 1: use of a light microscope.

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

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 Foundation 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
	4.6.1.3 DNA and the genome
	4.6.1.4 Genetic inheritance
	4.6.1.5 Inherited disorders
	4.7.1.1 Communities
	4.7.1.2 Abiotic factors
	4.7.1.3 Biotic factors
	4.7.2.1 Levels of organisation
	4.7.2.2 How materials are cycled

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/88066eb0-1d8c-11e8-a6da-15f18bba751c/section/6dce893a-4d82-448a-8fe6-970454d5b8b7/session>

Save my exams:

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

Cognitio:

<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/foundation>

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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:

- 4.1.3.2 Osmosis
- 4.1.3.3 Active transport
- 4.2.2.4 Coronary heart disease: a non-communicable disease
- 4.4.1.3 Uses of glucose from photosynthesis
- 4.4.2 Respiration

Paper 2

Topics **not assessed** in this paper:

- 4.5.2 The human nervous system
- 4.5.3.3 Hormones in human reproduction
- 4.5.3.4 Contraception
- 4.6.1.1 Sexual and asexual reproduction
- 4.6.1.2 Meiosis
- 4.6.1.6 Sex determination
- 4.6.2.1 Variation
- 4.6.2.2 Evolution
- 4.6.2.3 Selective breeding
- 4.6.3.3 Extinction
- 4.6.3.4 Resistant bacteria
- 4.7.1.4 Adaptations
- 4.7.3.1 Biodiversity
- 4.7.3.3 Land use
- 4.7.3.4 Deforestation
- 4.7.3.5 Global warming
- 4.7.3.6 Maintaining biodiversity