



Biology A Level - General Information

- For each paper the list shows the major focus of the content of the examination; 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 appear in multiple-choice items, low tariff questions, or via synopticity.
- Assessment of practical skills (section 8.3 of the specification) and maths skills (section 6 of the specification) occurs throughout the three papers.
- It is not permitted to take this advance information into the examination.
- Please use G drive for revision resources and a revision hub we have created to help guide you:
 - [A-level Biology Revision HUB \(padlet.com\)](https://www.padlet.com)

Content assessed in each of the papers.

Each number point (e.g. 3.2.3) is a specification reference point. Required practicals are stated. maths skills are assessed throughout all three papers as usual.

Paper 1 - 7402/1	Paper 2 - 7402/2	Paper 3 - 7402/3
3.2.3 Transport across cell membranes (including Required Practical 3)	3.6.4 Homeostasis is the maintenance of a stable internal environment	3.5.1 Photosynthesis
3.2.1 Cell structure	3.5.2 Respiration (including Required Practical 9)	3.2.2 All cells arise from other cells (including Required Practical 2)
3.4.4 Genetic diversity and adaptation (including Required Practical 6)	3.6.2 Nervous coordination	3.8.4 Gene technologies allow the study and alteration of gene function allowing a better understanding of organism function and the design of new industrial and medical processes
3.3.2 Gas exchange	3.5.3 Energy and ecosystems	3.6.2 Nervous coordination
3.1.4 Proteins (including Required Practical 1)	3.5.4 Nutrient cycles	3.3.4 Mass transport
3.1.2 Carbohydrates	3.7.1 Inheritance	3.4.2 DNA and protein synthesis
3.3.4 Mass transport	3.8.2 Gene expression is controlled by a number of features	3.1.4 Proteins
3.4.6 Biodiversity within a community	3.5.1 Photosynthesis	3.6.1 Stimuli, both internal and external, are detected and lead to a response



The final question, as always, on paper 3, 7402/3 will be a choice of two synoptic essays.

Content NOT assessed in each of the papers.

General topics not directly assessed in the papers. It is important to focus on what is being assessed in the papers, rather than what is not.

Paper 1 - 7402/1	Paper 2 - 7402/2	Paper 3 - 7402/3
Lipids	Muscle structure & contraction	Assesses anything from papers 1 and 2 so focus on what is going to be in the paper!
DNA	Hardy-Weinberg equations	
RNA	Speciation & geographical isolation	
DNA replication	Selection	
ATP	Succession & sampling	
Water	Mutations	
Inorganic ions	Response to stimuli	
Mitosis	DNA technologies e.g. DNA fingerprinting	
Immune system		
Surface area: volume ratio		
Digestion and absorption		
DNA, genes & chromosomes		
Protein synthesis		
Meiosis		
Species and taxonomy		
Investigating diversity		