

The Sixth Form at George Abbot

'Academic excellence within a vibrant community.'



Subject: Biology

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Pre Sixth Form Tasks

Task	Detail	Demonstrated		
		Yes	Partially	No
Organisation	<ul style="list-style-type: none"> A large lever-arch folder, with dividers or clear sections for AS units 1, 2, 3 and 4. Specification printed and included in folder. This task sheet printed and included in folder. 			
Head Start to A Level Biology (CGP)	Task 1 – Biological Molecules (answer all questions). Task 2 – Cell structure (answer all questions).			
Further Reading	Read the following Biological Sciences Review articles; <ul style="list-style-type: none"> How to be successful at A Level. How to Prepare for A level Exams. 			
Additional task(s)	<ul style="list-style-type: none"> Structure and function of biological molecules. Draw labelled Eukaryotic and Prokaryotic cells. Organelle functions. Watch 'Secret Universe -The Hidden Life of the Cell'. Located on the SLE (Approx. 1 hour long). 			

Link to Subject Specification

The AQA A level Biology specification can be located on the AQA website here;

<http://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402>

It can also be found in the Year 12 Biology folder on the SLE.

Suggested Reading List and Subject Resources

All of the resources that you will need to complete these tasks are located on the school website and in the Pre-Sixth Form Tasks folder, located in the Year 12 Biology folder on the SLE:

<https://georgeabbotschool.sharepoint.com/:f:/s/SLE/Eq4U-sQS1BJLqo27D18ryl0B0WVbma7QFA1tbgKg8MPALg?e=LHXasi>

Useful Websites

<u>Name</u>	<u>What's included?</u>
Seneca Great for learning content	Summaries, notes, videos and lots of different types of practice questions – very useful for revising content before doing past paper questions
Physics & Maths Tutor A good starting point for revision (lots of options to choose from)	Revision notes, flashcards, mind maps, questions from past exam papers separated by topic and other worksheets.
Maths Made Easy	Past papers, exam questions by topic and maths for A Level biology questions and tips
Cognito Resources	Past papers and exam questions by topic
BiologyGuide!	Revision notes (these notes are designed to cover most exam boards but are based on the AQA specification)
S-cool	Revision notes, exam style questions and revision guides
Doddle Learn Contact your biology teacher if you have forgotten your login details.	Powerpoints, animations and revision quizzes to help revise content.

If at any point you struggle to access the resources or you are an external candidate please email Mrs Kemp or Mrs Avenell for support. (jkemp@georgeabbot.surrey.sch.uk/gavenell@georgeabbot.surrey.sch.uk)

All tasks completed	Yes	No
Subject Teacher Signature		

Unit 3.1 Using websites, textbooks and your CGP Head Start to A Level Biology work find out the structure and function of the following biological molecules.

Use the specification to see the level of detail needed for each structure- these drawings should be hand drawn.

Structure (use a drawing)	Function
Monosaccharides e.g. α Glucose or β Glucose	
Lipid e.g. Triglyceride	
Amino acid	
Nucleotide	
ATP	
Water	

Unit 3.2 Draw a labelled diagram of a prokaryotic and a eukaryotic cell. Make a table to summarise the main differences between a prokaryotic and a eukaryotic cell.

Prokaryotic cell

Eukaryotic cell

Unit 3.2 Using websites, textbooks and your CGP Head Start to A Level Biology work describe the function of organelles common to eukaryotic cells.

Organelle	Function
Cell-surface membrane	
Nucleus	
Mitochondria	
Chloroplast	
Golgi apparatus	
Lysosome	
Ribosome	
Endoplasmic reticulum (rough and smooth)	
Cell wall	
Vacuole	