

Pre-Sixth Form Tasks

Subject: Biology (Units 1 and 2)

Task	Detail	Demonstrated		
		Yes	Partially	No
Organisation	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 include in folder.			
Further reading	Review and read PowerPoint presentations on Doodle on Biological Molecules.			
	Review and read PowerPoint presentations on Doodle on Cell Structure.			
	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			
<i>Additional task(s)</i>	Structure and function of biological molecules.			
	Draw labelled Eukaryotic and Prokaryotic cells.			
	Organelle functions.			
	Watch 'Secret Universe -The Hidden Life of the Cell' on student resources.			

• **Tasks satisfactorily completed:** Yes / No

• **Subject Teacher signature:** _____

Information

Log on to doddle.

www.doddlelearn.co.uk

- Institution:** George Abbot School
- Username:** same as school e.g. smitjohn.12
- Password:** the word 'password' (all lower case) unless changed

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 on the student resource drive here;

Student Resources\YEAR_12\Science\BIOLOGY\AQA A Level Biology Specification

OR Student Resources:\YEAR_11\Science\1. BIOLOGY\ Pre-Sixth Form Tasks\AQA A Level Biology Specification

Documentary

For access to the documentary 'Secret Universe -The Hidden Life of the Cell' please use the following pathway.

Student Resources\YEAR_12\Science\BIOLOGY\ Pre-Sixth Form Tasks\Secret Universe -The Hidden Life of the Cell.

OR Student Resources:\YEAR_11\Science\1. BIOLOGY\ Pre-Sixth Form Tasks\Secret Universe -The Hidden Life of the Cell.

Articles

For access to the Biological Sciences Review articles use the following pathway.

Student Resources\YEAR_12\Science\BIOLOGY\ Pre-Sixth Form Tasks

OR Student Resources:\YEAR_11\Science\1. BIOLOGY\ Pre-Sixth Form Tasks

If at any point you struggle to access the resources or you are an external candidate without a doddle log in please email Miss Wheeler on jwheeler@georgeabbot.surrey.sch.uk

Unit 3.1 Using the presentations on **Biological Molecules** on **Doddle**, 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 the presentations on **Cell Structure** on **Doddle**, 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	