## A Level Biology – Preparation for sixth form

Welcome to A Level Biology! You have picked an extremely exciting and rapidly developing subject with a central place in the future of our society. We hope this gives you some guidance as how best to prepare yourself for picking this subject. We are really looking forward to seeing you in the classroom soon.

You **must** complete every section of the *compulsory* work needed to support your transition into biology A level. It is also **highly recommended** that you complete the *suggested* preparation work

			Complete?
	GCSE revision	Your Y11 knowledge is essential in supporting your transition to A level. Complete the "Well, what do you know" activities (WS1 and WS2) attached. <b>Complete the WS1</b> <u>without</u> reference to textbooks or other resources. These tasks will be reviewed in your first biology lesson.	
		Well, what do you Well, what do you	
-	A Hood	know? WS1.docx know? WS2.docx	
	Start	following resource, and complete the questions at the bottom of each page:	
		Head start to A level Biology – Kindle free edition <u>A Head Start - CGP</u>	
rk		Please note: Only pages 1 to 13, and 31 to 33 are compulsory. If you are unable to access the Kindle booklet above, please email: cbirds@ecgbert.sheffield.sch.uk	
preparation wo		You must self-assess your work and annotate your answers in a different colour. You can find the answers at the end of the booklet. If you have any questions about this work, please either email Mrs Birds (email address above), or speak to one of your teachers as soon as you start the course.	
Compulsory		Your teachers will ask to see evidence of this work. I suggest that you print out the compulsory pages so that you can answer the questions on the back of each page. Alternatively, write your answers in full sentences on lined paper, and include clear sub-headings.	
	Bridging work for <b>combined</b> science students.	If you studied combined science, complete the document named "Bridging the gap – Combined to Y12" to get you up to speed. You must self-assess your work and annotate your answers in a different colour. You can find the answers at the end of the booklet.	
		Your teachers will ask to see evidence of this work. I suggest that you print the booklet out and write your answers in the spaces provided. Alternatively, write your answers in full sentences on lined paper, and include clear sub-headings.	
		If you studied separate science, it wouldn't do you any harm if you had a go too!	
		Bridging the Gap - Combined to	

	A Head	Work through the pages of the "A Head Start" booklet that you haven't already	
	Start -	completed (pages 14-30). You should self-assess your work and annotate your	
	continued	answers in a different colour. You can find the answers at the end of the	
		booklet.	
		Head start to A level Biology – Kindle free edition	
		<u>A Head Start - CGP</u>	
		If you are unable to access the Kindle booklet above, please email:	
		<u>cbirds@ecgbert.sheffield.sch.uk</u>	
	Maths	Professional biologists routinely use a range of mathematical skills to allow them	
	skills	to carry out their everyday work. Have a go at the maths practice questions on P5	
		onwards in the "maths skills questions" booklet. There are mini tutorials before	
		each set of questions, and the answers can be found at the bottom of the	
		document.	
	Stretch	Read the "Big picture – Cells" article. This article covers important ideas that you	
	and	will cover on the A Level Biology course. This article is challenging, so we don't	
	challenge -	expect you to remember everything within it. Once you have read the article,	
	Article	have a go at answering the following questions:	
		* What are cells for?	
		* What are the structures of cells?	
		* How do cells divide, develop and communicate?	
		* What are stem cells and why are they important?	
~		* what happens when cells die?	
vorl		Please open additional file >	
N N	Ted Talks	Listen to the following <b>Ted Talks</b> :	
atic		Why bees are disappearing -	
Suggested prepara		https://www.ted.com/talks/marla_spivak_why_bees_are_disappearing	
		Growing new organs -	
		https://www.ted.com/talks/anthony_atala_growing_new_organs	
		What would happen if you didn't drink water –	
		https://www.ted.com/talks/mia_nacamulli_what_would_happen_if_you_didn	
		t_drink_water#t-72581	
		How enzymes could change the world –	
		https://www.ted.com/talks/adam_garske_how_designing_brand_new_enzym	
		es could change the world	
		There are <b>hundreds</b> of wonderful Ted Talks. Have a look for a talk that	
		interests you personally.	
·	Desurrent	what have you learned? Do you agree with the main points?	
	Document	This BBC film shows the complex yet faccinating workings of the cell.	
	arres	https://www.bbc.co.uk/iplayer/episode/b01plp7d/secret-universe-the-bidden-life-of-the-cell	
		You can also find plenty of interesting documentaries on BBC iPlayer. Blue	
		Planet, The Natural World, Planet Earth, Life on Earth are just a few!	
ĺ	Magazines,	Biologist (RSB) - https://thebiologist.rsb.org.uk/biologist	
	articles	Helping you to understand the true value of biology and how it can contribute	
	and	to improving life for all.	
	interesting	Learn genetics by Utah: <a href="https://learn.genetics.utah.edu/content/basics/">https://learn.genetics.utah.edu/content/basics/</a>	
	websites	Possibly the best genetics website everwith lots of well-pitched, interactive	
		resources to explore.	
		Science daily - <u>www.sciencedaily.com</u>	
		Explore breaking science news and articles	
		BBC News - https://www.bbc.co.uk/news/science_and_environment	
		Explore breaking science news and articles	