

# BTEC in Applied Science – Preparation for sixth form

You must complete every section of the *compulsory* work needed to support your transition into BTEC Applied Science, it is also highly recommended that you complete the *suggested* preparation work

			Estimated hours	Completed	Evidence
Compulsory preparation work	GCSE revision	<p>Your Y11 knowledge is essential in supporting your transition. In fact much of your BTEC Science work will build on GCSE knowledge. Please see the materials at the start of each booklet (Double and/or triple).</p> <p>In double booklet:  <a href="#">GCSE microscope core practical booklet</a>  <a href="#">Pages from Chemistry GCSE book</a>  <a href="#">Physics – Waves from GCSE book (all students)</a></p> <p>In triple booklet:  <a href="#">light and the electromagnetic spectrum from GCSE book (Triple science only)</a></p>	1-2		
	Online resources	<p>It is essential that you download these resources and print if possible / if not read through them.</p> <p><a href="https://www.stem.org.uk/resources/elibrary/resource/34589/cell-suitable-home-teaching">https://www.stem.org.uk/resources/elibrary/resource/34589/cell-suitable-home-teaching</a></p> <p><a href="https://pmt.physicsandmathstutor.com/download/Physics/GCSE/Notes/Edexcel/4-Waves/Summary%20Notes%20-%20Topic%204%20Edexcel%20Physics%20GCSE.pdf">https://pmt.physicsandmathstutor.com/download/Physics/GCSE/Notes/Edexcel/4-Waves/Summary%20Notes%20-%20Topic%204%20Edexcel%20Physics%20GCSE.pdf</a></p> <p><a href="https://pmt.physicsandmathstutor.com/download/Physics/GCSE/Notes/Edexcel/5-Light-and-the-Electromagnetic-Spectrum/Summary%20Notes%20-%20Topic%205%20Edexcel%20Physics%20GCSE.pdf">https://pmt.physicsandmathstutor.com/download/Physics/GCSE/Notes/Edexcel/5-Light-and-the-Electromagnetic-Spectrum/Summary%20Notes%20-%20Topic%205%20Edexcel%20Physics%20GCSE.pdf</a></p> <p>Triple Science only – watch videos 3 - 8  <a href="https://www.youtube.com/watch?v=fi_dg2K2zN0&amp;list=PLGvD8d3gDHUUSyk7Zm-wdf-D1eQT358ID">https://www.youtube.com/watch?v=fi_dg2K2zN0&amp;list=PLGvD8d3gDHUUSyk7Zm-wdf-D1eQT358ID</a></p>	2		
	Key words / terminology	<p>You will need to learn the following key words and terminology to give yourself a strong head start. Get your parents / siblings to test you</p> <p><a href="#">Glossary at start of each section in Double Science booklet</a></p>	1		

	Specific subject task	<p>Complete the attached booklets:</p> <p><b>Double booklet is split into 3 sections and is compulsory for all BTEC students.</b></p> <p><b>The triple booklet is also compulsory for those students studying the equivalent of 3 A level option.</b></p>	2-6		
Suggested preparation work	Suggested reading	<p>Head start books – Kindle free edition. There is a lot of overlap between A level Sciences and BTEC Applied Science and these are free to download</p> <p><a href="https://www.amazon.co.uk/Head-Start-level-Biology-Level-ebook/dp/B00VE2NIOI/ref=sr_1_1?dchild=1&amp;keywords=head+start+to+a+level+biology&amp;qid=1585645868&amp;s=digital-text&amp;sr=1-1">https://www.amazon.co.uk/Head-Start-level-Biology-Level-ebook/dp/B00VE2NIOI/ref=sr_1_1?dchild=1&amp;keywords=head+start+to+a+level+biology&amp;qid=1585645868&amp;s=digital-text&amp;sr=1-1</a> (Mrs Radbourne recommends pages 6-10)</p> <p><a href="https://www.amazon.co.uk/Head-Start-level-Chemistry-Level-ebook/dp/B00VE2NIGG/ref=pd_sim_351_1/258-9207579-6309540?encoding=UTF8&amp;pd_rd_i=B00VE2NIGG&amp;pd_rd_r=e2dddc40-9768-4e4e-be03-cf082f7068f2&amp;pd_rd_w=AH7G6&amp;pd_rd_wg=BV3sJ&amp;pf_rd_p=7df4b67e-ebf6-4e8b-b5dd-7a46501724e8&amp;pf_rd_r=9P2YF3W3WB6GZ1HW2N80&amp;psc=1&amp;refRID=9P2YF3W3WB6GZ1HW2N80">https://www.amazon.co.uk/Head-Start-level-Chemistry-Level-ebook/dp/B00VE2NIGG/ref=pd_sim_351_1/258-9207579-6309540?encoding=UTF8&amp;pd_rd_i=B00VE2NIGG&amp;pd_rd_r=e2dddc40-9768-4e4e-be03-cf082f7068f2&amp;pd_rd_w=AH7G6&amp;pd_rd_wg=BV3sJ&amp;pf_rd_p=7df4b67e-ebf6-4e8b-b5dd-7a46501724e8&amp;pf_rd_r=9P2YF3W3WB6GZ1HW2N80&amp;psc=1&amp;refRID=9P2YF3W3WB6GZ1HW2N80</a> (Mr Sharkey recommends pages 1-18)</p> <p><a href="https://www.amazon.co.uk/Head-Start-level-Physics-Level-ebook/dp/B00VE2NII4/ref=pd_sim_351_5/258-9207579-6309540?encoding=UTF8&amp;pd_rd_i=B00VE2NII4&amp;pd_rd_r=e2dddc40-9768-4e4e-be03-cf082f7068f2&amp;pd_rd_w=AH7G6&amp;pd_rd_wg=BV3sJ&amp;pf_rd_p=7df4b67e-ebf6-4e8b-b5dd-7a46501724e8&amp;pf_rd_r=9P2YF3W3WB6GZ1HW2N80&amp;psc=1&amp;refRID=9P2YF3W3WB6GZ1HW2N80">https://www.amazon.co.uk/Head-Start-level-Physics-Level-ebook/dp/B00VE2NII4/ref=pd_sim_351_5/258-9207579-6309540?encoding=UTF8&amp;pd_rd_i=B00VE2NII4&amp;pd_rd_r=e2dddc40-9768-4e4e-be03-cf082f7068f2&amp;pd_rd_w=AH7G6&amp;pd_rd_wg=BV3sJ&amp;pf_rd_p=7df4b67e-ebf6-4e8b-b5dd-7a46501724e8&amp;pf_rd_r=9P2YF3W3WB6GZ1HW2N80&amp;psc=1&amp;refRID=9P2YF3W3WB6GZ1HW2N80</a> (Mr Scott recommends pages 23-36)</p> <p>Maths skills are an important part of the Applied Science course. Here are links to maths skills books that OUP have kindly made accessible for free for the moment.</p> <p><a href="https://en.calameo.com/read/0007777215eb633228e4a?authid=PxULnYR8IBAq">https://en.calameo.com/read/0007777215eb633228e4a?authid=PxULnYR8IBAq</a></p> <p><a href="https://en.calameo.com/read/000777721dc7bc9b4572e?authid=3XeN09XfQP12">https://en.calameo.com/read/000777721dc7bc9b4572e?authid=3XeN09XfQP12</a></p> <p><a href="https://en.calameo.com/read/000777721e07b3a9be2d9?authid=xUy1ejpHZ2T5">https://en.calameo.com/read/000777721e07b3a9be2d9?authid=xUy1ejpHZ2T5</a></p>			
	Ted Talk / documentary	<p>Listen to this Ted talk and take notes. What have you learned? Do you agree with the main points?</p> <p><b>Biology:</b></p> <p><a href="https://www.ted.com/talks/anthony_atala_growing_new_organisms?language=en">https://www.ted.com/talks/anthony_atala_growing_new_organisms?language=en</a></p> <p><b>Phys -</b></p> <p><a href="https://www.ted.com/talks/brian_cox_why_we_need_the_explorers">https://www.ted.com/talks/brian_cox_why_we_need_the_explorers</a></p> <p><a href="https://www.ted.com/talks/michelle_borkin_can_astronomers_help_doctors">https://www.ted.com/talks/michelle_borkin_can_astronomers_help_doctors</a> (triple only)</p>			
	videos to watch / pod casts to listen to	<p><b>Biology:</b></p> <p><a href="https://www.youtube.com/watch?v=yutNM8Alkkg">https://www.youtube.com/watch?v=yutNM8Alkkg</a></p> <p><a href="https://www.bbc.co.uk/programmes/b03jdy3p">https://www.bbc.co.uk/programmes/b03jdy3p</a></p> <p><b>Chem –</b> <a href="https://www.youtube.com/watch?v=vxCyzR6uETs">https://www.youtube.com/watch?v=vxCyzR6uETs</a></p> <p><a href="https://www.youtube.com/watch?v=e3lRt9XdV0s">https://www.youtube.com/watch?v=e3lRt9XdV0s</a></p> <p><b>Phys -</b> <a href="https://www.youtube.com/watch?v=lTe6snlZBp8">https://www.youtube.com/watch?v=lTe6snlZBp8</a></p> <p><a href="https://www.youtube.com/watch?v=dBFGjdgbpno">https://www.youtube.com/watch?v=dBFGjdgbpno</a></p>			

	Other suggested activities	There are some optional Physics tasks at the end of the Double booklet			
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