


Subject A – Preparation for sixth form

Congratulation on picking the Physics - best A Level course there is! We hope this gives you some guidance as how best to prepare yourself for starting the course.

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

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Compulsory preparation work	GCSE revision	<p>Your Y11 knowledge is essential in supporting your transition to A level. Complete the attached GCSE transition questions. These are designed to test your understanding of the topics you studied at GCSE.</p> <p>There are loads of videos here: https://www.youtube.com/channel/UCZzatyx-xC-DI_VVUVHYDYw if you find that there are topics you need to go over again</p>	
	Online resources	<p>It is essential that you download these resources and print if possible / if not work through online.</p> <p>Head Start to Physics A Level book – currently free as Kindle edition (also available as a paperback for £4.95) Email Mrs Bell on abell@ecgbert.sheffield.sch.uk if you have trouble accessing this document and I will send you a PDF version. https://www.amazon.co.uk/Head-Start-level-Physics-Level-ebook/dp/B00VE2NII4/ref=msx_wsirn_v1_6/259-0922743-4799544?_encoding=UTF8&pd_rd_i=B00VE2NII4&pd_rd_r=0b9dbecd-8c91-43ed-8cb7-95c3137282ef&pd_rd_w=XxLER&pd_rd_wg=adPAb&pf_rd_p=2c73497e-0658-4f6d-8f3c-06c5</p>	
	Maths skills	<p>To study Physics, you need some essential maths skills. Work through the maths skills document to make sure your maths is up to scratch.</p> <p>Once you have done that, do the questions in the ‘test your maths skills’ document to see if you can apply your maths skills to physics problems.</p>	

Suggested preparation work	<p>Interesting things to do/watch/read</p>	<p>Look at the 'movies, research and more' document. Watch one of the suggested films, a ted talk or do one of the research activities.</p> <p>Some book recommendations</p>  <p>Explore lots of different physics ideas at http://www.physics.org/</p> <p>Look at the activities from the Warwick Journal Club https://warwick.ac.uk/fac/sci/physics/outreach/journalclub</p> <p>Learn about the Northern lights and the Solar system https://www.youtube.com/channel/UCRkUIY0rg5JOLtoaHzh2rrw</p>	
	<p>Research task</p>	<p>Research a Physicist – word limit 500 words \pm 10%. (see requirement below)</p> <ul style="list-style-type: none"> • Choose at least one Physicist (ideally one you have not heard of) that is in a field of physics you are interested in. • who are/were they and what did they discover or are working on. • How their science applies to everyday modern life today • Why did you choose this Physicist? • Include your references (ideally Harvard referencing style – there are plenty of free tools online to help you do this) <p>There are lots on Twitter/Instagram that you can get in contact with (they do not have to be super famous or dead or have won a Nobel prize). Or if you do not want to talk to anyone directly you can find long lists of people online.</p>	