



Bishop Wordsworth's School

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22 September 2019

Dear Parents/Guardians

I am contacting you regarding opportunities for academic support in the coming year for your son in Physics. As you will be aware your son performed below his target grade in the end of year examinations held last term and as such we are keen to see an increase in his performance so that he can be confident of securing the post-18 option he wants.

The Physics staff will be holding one lunchtime "help session" per week, all year long, delivered by a rotating member of A-level specialist staff and we believe that your son would benefit from attending these sessions regularly. In order for these sessions to be productive we would ask that he come prepared to the first lunchtime with a specific work book that we will be working from and this is available on amazon or at most book stores; A-Level Physics for OCR: Revision Guide by Gurinder Chadha, ISBN: 9780198352204. If obtaining this book is problematic please contact me and we may be able to provide support.

Your son will be asked to complete a relevant section of the work booklet each week and then we will meet to address misconceptions, deal with difficult computational mathematics and generally review last year's content before moving on to more recent theory (please see the time table on the next page). The boys who attended these sessions last year improved upon their mock examination by an average of over a grade.

Sessions will last approximately 30 minutes and will be held at a lunch time with the first session on Tuesday 24 September. We hope you will be able to support us in ensuring your son makes the most of this opportunity and should you have any further questions please do not hesitate to contact me at mxt@bws.wilts.sch.uk.

Kind regards

Michael Thorne
Head of Physics and Geology

W.B.	Topic to be Covered	Pages of the Book to have completed in advance	Staff
23/09/2019	Intro to Quantities & Units + Scalars	2-8 (note this includes the practice questions on next page)	MXT
30/09/2019	Graphs of Motion & SUVATS	9 – 15 (note this includes the practice questions on next page)	LJK
07/10/2019	Freefall PAG 1 & Projectiles	16-20 (note this includes the practice questions on next page)	MXT
14/10/2019	Free Body Diagrams & Terminal Velocity	22-25	RJM
21/10/2019	Moments, Density & Pressure	26 - 32 (note this includes the practice questions on next page) Breadth In Physics Paper from 2017	MXT
Half Term			
04/11/2019	Work done & energy / Power & Efficiency	34-40 (note this includes the practice questions on next page)	RJM
11/11/2019	Newton's Laws	48-52 (note this includes the practice questions on next page)	MXT
18/11/2019	Hooke's Law & Young Modulus	44-46 (note this includes the practice questions on next page)	LJK
25/11/2019	Current & Charge, Drift Velocity	54-58 (note this includes the practice questions on next page)	LJK
02/12/2019	P.d and Circuits, I-V Characteristics PAG 3	60-63	MXT
09/12/2019	Resistivity & Power	64-68 (note this includes the practice questions on next page) Depth in Physics Paper 2017	MXT
Christmas Break			
06/01/2020	Kirchhoff's 2 nd & Combination Resistors	P70-71	LJK
13/01/2020	Internal r. PAG 4	72-74 (note this includes the practice questions on next page)	TBC
20/01/2020	Wave Properties, Polarisation & Intensity	76 – 84 (note this includes the practice questions on next page)	TBC
27/01/2020	Superposition & Standing Waves	86-90 (note this includes the practice questions on next page)	TBC
03/02/2020	Photons & Photoelectric Effect & Wave-Particle Duality	92-96 (note this includes the practice questions on next page)	LJK
10/02/2020	Thermal Physics	98 – 102 (note this includes the practice questions on next page) Breadth and Depth Physics Paper 2018	TBC
Half Term			
24/02/2020	Ideal Gases	104 – 108 (note this includes the practice questions on next page)	
02/03/2020	Circular Motion & Oscillations	114 & 122 (practice questions only)	
09/03/2020	Gravitational Fields	124 – 130 (note this includes the practice questions on next page)	
16/03/2020	Stellar Evolution & Cosmo	138 & 144 (practice questions only)	
23/03/2020	Capacitance	145 – 150 (note this includes the practice questions on next page)	LJK

Easter			
20/04/2020	Electric Fields	151 – 158 (note this includes the practice questions on next page)	
27/04/2020	Magnetic Fields	160 – 166 (note this includes the practice questions on next page)	
04/05/2020	Particle & Radioactivity	172, 180 & 186 (practice questions only)	MXT
11/05/2020	Medical	188 - 194 (note this includes the practice questions on next page)	MXT