



Supporting Your Child's Learning

Summer Term - Year 10

At Yardleys, we understand that it can sometimes be difficult to know how best to support your children through their studies. But we also know that the more our students talk about their work, both inside and outside of school, the deeper and more flexible their learning. We need you to help us promote the school values of **curiosity** and **reflection** beyond our classrooms and, in doing so, help your child on their journey to academic success!

Below is a condensed plan of what your child will be studying in their core subjects this term, along with some suggestions of additional home learning activities - things you might watch, listen to or discuss together - in order to support their learning in school.

	Watch (Access ClickView via the 'Homework Hub' section of the VLE)	Listen (Use BBC Sounds and Spotify to access suggested podcasts)	Discuss (Start up a conversation with your child around these topics)
Summer 1			
English Students will be revisiting the anthology of conflict poetry they studied in Y9 and look to compare core poems detailing physical, familial and social conflict.	BBC Teach: Ciaran Carson on 'Belfast Confetti' Southbank Centre: Johan Agard, Guyana BBCiPlayer: Tan France: Beauty and the Bleach	Witness History: World War I Poetry. 'In Our Time: The Charge of the Light Brigade' 'Straight Talking English' Podcast, S4 E11: 'Tennyson's <i>The Charge of the Light Brigade</i> '	Is conflict ever necessary? How might people affected by conflict feel? To what extent do you think those actively involved in conflict understand its purpose? To what extent might poems be viewed as sources to explain historical conflicts?
Maths Foundation: distance-time graphs; compound measurements; inequalities; ratio; double brackets; standard form	https://corbettmaths.com/2013/05/25/travel-graphs/ https://corbettmaths.com/2013/05/18/inequalities/ https://corbettmaths.com/2013/12/23/expanding-two-brackets-video-14/ https://corbettmaths.com/2013/04/28/standard-form/		Who is faster, Usain Bolts' world record of 100 m in 9.8 seconds, or a car travelling at 25 mph? What is wrong with this inequality: $-3 < x > 5$? The distance between the Sun & planet Earth is 93 million miles. How can we write this in standard form?
Higher: histograms; cumulative frequency; mean from tables; percentage calculations; compound interest; volume of prisms and non-prisms	https://corbettmaths.com/2012/08/20/drawing-histograms/ https://corbettmaths.com/2012/08/09/drawing-cumulative-frequency-graphs/ https://corbettmaths.com/2013/02/15/reverse-percentages/ https://corbettmaths.com/2013/04/20/volume-of-a-prism/		What does the word 'cumulative' mean? Why is the mean from a grouped frequency table always an estimate? Can you define a prism? How do you work out the volume of a prism? Can you recall the volume formulae for both a cone and a sphere?
Science Biology: Topic B5: Health, Disease and the Development of Medicines	Horizon: Sugar vs Fat, A Balanced Diet Ten Bad Things You Didn't Know about Smoking and Tabaco	Health Check: Floods Spreading Disease in Pakistan (BBC Sounds)	Are natural disasters increasing the spread of disease? Is obesity causing people to become more ill from other diseases?

		More of Less: The Truth about Obesity and Covid-19 (BBC Sounds)	
Physics:	<p>Bill Nye the Science Guy - Electricity: https://www.youtube.com/watch?v=SYacUaukaxg</p> <p>Mains Electricity - Freesciencelessons https://www.youtube.com/watch?v=fbu3o9wavHk</p>	<p>Read the following:</p> <p>Circuits fundamentals: http://www.dynamicscience.com.au/tester/solutions1/electric/circuits1.htm</p> <p>The War of The Currents - AC vs DC Power https://www.energy.gov/articles/war-currents-ac-vs-dc-power</p>	<p>How are plugs and circuit breakers designed to keep you safe in the home?</p> <p>Consider the 'trucks with energy' analogy from the 'Circuits Fundamentals' link (under Read). Can you think of a similar analogy?</p>
Chemistry: Metals and Extraction	<p>GCSE Pod: Extracting Metals</p> <p>GCSE Pod: New Ways of Extracting Copper</p>		<p>How is the reactivity series linked to different methods of metal extraction?</p> <p>Are there any metals which don't need to be extracted and found in their native state?</p>
Summer 2			
<p>English</p> <p>Students will continue to develop their understanding of poetry and their analysis of it by comparing unseen poems.</p>	<p>'Perfecting Poetry: Poetic Form and Structure'</p> <p>'Perfecting Poetry: Sensory Imagery and Sound Devices'</p> <p>Simon Armitage: Writing Poems (2012)</p>	<p>'Straight Taking English' Podcast, 'Tacking an unseen Poem'</p> <p>Remember to also check out GCSEPod for more relevant pods.</p>	<p>Why do people write poetry?</p> <p>Is a poem more or less impactful than a narrative?</p> <p>What do you think makes an effective poem? What is it about these feature/devices that you find impactful?</p>
<p>Maths</p> <p>Foundation: rearranging equations; simultaneous equations; drawing straight line graphs; transformation (reflection and rotation)</p>	<p>https://corbettmaths.com/2013/12/23/changing-the-subject-video-7/</p> <p>https://corbettmaths.com/2013/03/05/simultaneous-equations-elimination-method/</p> <p>https://corbettmaths.com/2013/05/29/ymxc/</p> <p>https://corbettmaths.com/2012/08/19/reflections/</p> <p>https://corbettmaths.com/2013/05/19/rotations/</p>		<p>What does the word 'simultaneous' mean?</p> <p>What is the gradient & y-intercept for the straight-line $y = 2x - 5$?</p> <p>What is the angle turn from North to South?</p> <p>In transformations, what does TRRE stand for?</p>

Higher: similarity; triple brackets; equating coefficients; quadratic sequences; speed	https://corbettmaths.com/2013/11/16/similarshapes/ https://corbettmaths.com/2013/12/27/expanding-three-brackets-video-15/ https://corbettmaths.com/2021/12/10/identities-video/ https://corbettmaths.com/2016/08/07/quadratic-sequences-version-2/		<p>When two or more shapes are similar, what property/feature of those shapes stays the same?</p> <p>Can you define the word 'coefficient'?</p> <p>What are the three main units of speed?</p> <p>Who is faster, Usain Bolts' world record of 100 m in 9.8 seconds, or a car travelling at 25 mph?</p>
Science Biology: Topic B2 (part 2) Cells and Control	<p>Stem Cells and Miracles</p> <p>Stem Cells: Wheelchair User</p> <p>Professor Dave Explains Biology: Mitosis, How Once Cell Becomes Two</p>		<p>What are the issues surrounding stem cells?</p> <p>We know that we are made of cells. But we start out as just one tiny cell in the womb. How does that become enough cells to look like a baby? And how does that baby get enough cells to become an adult?</p>
Physics:	<p>Scientific Eye: Static Electricity</p> <p>Dangerous Earth (E02) : Lightning</p> <p>Shedding Light on Electricity (S01. E05): Electrical Safety</p>	<p>MET Office - about Lightning: https://www.metoffice.gov.uk/weather/learn-about/weather/types-of-weather/thunder-and-lightning/lightning</p> <p>Bitesize: https://www.bbc.co.uk/bitesize/guides/zt7t4j6/revision/1</p>	<p>Research how lightning occurs, and ways in which we can prevent it from being dangerous.</p> <p>Rub a balloon on a jacket and stick it to a wall. Can you explain why it sticks there?</p>
Chemistry: Chemical Equilibria	<p>Chemical Equilibrium S01. E01: Reversible Reactions</p>	<p>GCSE Pod: Reversible Reactions and Equilibria</p>	<p>What is meant by dynamic equilibrium?</p> <p>What factors affect dynamic equilibrium?</p>
<p>In the second half of the Summer Term (w/c 23.06.25 and 30.06.25), students will be examined on their knowledge in all subjects during a whole school assessment fortnight.</p>			