Supporting Your Child's Learning
Autumn Term – Year 9 (HPA)

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 designed to provide further challenge- 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)
Autumn 1			
English Students will be reading the novel 'Salt to the Sea' and using this as a stimulus to explore the conceptual framework of power.	Rise of the Nazis https://www.clickview.net/secondary/series/16125050/rise-of-the-nazis Stalin https://www.clickview.net/secondary/videos/72720/stalin-part?context=series&contextId=72719	https://open.spotify.com/episode/2OfM3O4lJHuPoTPNriBLzV?si=mLxoyEATQ8SskeRGvFgwAQ&nd=1&dlsi=89835313d0bd4d4b https://open.spotify.com/show/0M3ioWXPLOTXuuGRRuxnrC Hunting Stolen Nazi Art - Dan Snow's History Hit | Podcast on Spotify	How can war affect the lives of ordinary people, even if they are not soldiers? What makes up a person's identity, and how might conflict or displacement change the way someone sees themselves? Why might people be forced to leave their homes and become refugees? What challenges do you think they might face? If your safety was at risk because of war, what would be the most important things you would take with you, and why?
Maths Students will cover the following topics: dividing by decimals, error intervals, recurring decimals, percentages, solving equations, index laws	https://corbettmaths.com/2013/02/15/division-by-decimals/ https://corbettmaths.com/2017/12/16/error-intervals/ https://corbettmaths.com/2021/11/01/simple-interest-video/ https://corbettmaths.com/2013/03/29/recurring-decimals-to-fractions/ https://corbettmaths.com/2012/08/24/solving-equations/ https://corbettmaths.com/2012/08/24/solving-equations-with-letters-on-both-sides/ https://corbettmaths.com/2013/03/13/laws-of-indices-algebra/		How do you divide by a decimal? How does turning a division sum into a fraction help? How do you read this $4.5 \leq x < 5.5$? What could it describe and how would you use it? How do you use algebra to turn recurring decimals into fractions? What is "interest"? How do you work out "simple interest"? What are the first four rules of indices
Science Students will cover the following topics: **Biology:** Ecosystems and Material Cycles **Chemistry:** Matters and Separating Mixtures **Physics:** Forces and Motion	Human Impact on Ecosystems Carbon cycle Changes of State (Solids, Liquids and Gases)	Parasitism (BBC Podcast) https://www.bbc.co.uk/sounds/play/b08bb9cy African food security (BBC Podcast) https://www.bbc.co.uk/sounds/play/b00bfjzv	Give some examples of parasitic relationships from the BBC Podcast and discuss what impact parasites have on the evolution of their hosts? How can we ensure that there is plenty of food for everyone?

	Separating Techniques Attempting to skydive faster than a peregrine falcon: https://online.clickview.co.uk/exchange/videos/7338576/episode-12-peregrine-falcon	The Next Particle (BBC Podcast) https://www.bbc.co.uk/sounds/play/b00d8yws Chromatography (BBC Podcast) https://www.bbc.co.uk/sounds/play/b06z4w7p The fastest things in the world: https://www.rankred.com/fastest-things-in-the-world/ The woman who fell out of a plane and lived: https://www.guinnessworldrecords.com/news/2022/4/how-vesna-vulovic-survived-the-highest-fall-ever-with-no-parachute-697786	What happens to particles in ice when it turns from a solid to liquid to gas? How do I separate pure salt from sandy water from a beach? What is the fastest speed that cars can achieve? How do they do this? Why do lorries take such a long time to accelerate, even though they have large engines? Read the article about the woman who fell from a plane. Can you explain how she survived?
Autumn 2			
English Students will continue reading the novel 'Salt to the Sea', writing analytically about the impact of language and structure devices within an extract.	Secrets of War: Nazi Gold https://www.clickview.net/secondary/videos/5589716/secrets-of-war-nazi-gold https://www.youtube.com/watch?v=EH00Z_T7oSE Sepetys (the author) discussing her novel https://www.youtube.com/watch?v=C8sROvInDBk	https://open.spotify.com/episode/1T9sOe9lpMrt0gDIF23tz2 BBC Sounds: Witness History 'The Sinking of the Wilhelm Gustloff'	Why it is essential for *Salt to the Sea* to be told from a first-person perspective from four different characters? Why is the sinking of the Wilhelm Gustloff not as well-known as the Titanic? What are Sepetys' intentions behind writing the book? What does this expose? https://www.npr.org/2016/02/17/466924137/more-died-on-this-wwii-ship-than-on-the-titanic-and-lusitania-combined
Maths Students will cover the following topics: Standard form, angles in parallel lines, properties of shapes	https://corbettmaths.com/2013/04/28/standard-form/ https://corbettmaths.com/2018/12/31/ratio-differences/ https://corbettmaths.com/2021/12/14/ratios-to-equations-video/ https://corbettmaths.com/2021/12/14/ratios-to-equations-video/ https://corbettmaths.com/2013/04/04/parallel-lines-angles/ https://corbettmaths.com/2013/12/21/names-of-quadrilaterals-video-2/		Who uses standard form? Why is it useful for these people? What are the three types of ratio questions? How do we use a table to help us set out our work? How do you form an equation from a ratio? What about a ratio from an equation? Draw three pairs of parallel lines. Identify the cointerior angles, alternate angles and corresponding angles. What makes a parallelogram different to a rhombus? What makes a trapezium different to either of those?

Science Students will cover the following topics: **Biology:** Key Concepts in Biology **Chemistry:** Atoms, Periodic Table, Ionic Bonding and Properties **Physics:** Energy	Types of Cells Enzymes (GSCE POD) Atomic Structure Ionic Bonding Forms of Energy Energy Efficiency Generating Electricity	The Virus hunters (BBC sounds) https://www.bbc.co.uk/sounds/play/m000hn63 Jatropha: The Wonder Plant (BBC sounds) https://www.bbc.co.uk/sounds/play/b007s0pv What is an atom? Spotify Podcast https://open.spotify.com/episode/3SfoW2yZNMjJwiHJJihBZz Ionic Liquids BBC Podcast https://www.bbc.co.uk/sounds/play/p03jryvn NASA's guide to climate change: https://climatekids.nasa.gov/kids-guide-to-climate-change/	How will the virus hunters protect us from virus? Is the Jatropha plant the solution to the world needs? What changes can be made to a building to lowe bills? What forms of electricity generation might th in the future? Why?
In the final week of the Autumn Term (w/c 14.12.26), students will be examined on their knowledge in all subjects during a whole school assessment week.			