



Nobel

**Year 12
Super Curriculum**

The Nobel Super Curriculum

In this booklet, you will find a range of challenges that encourage you to think about the learning that you can do outside of your lessons to become a more active and independent learner.

Whether you are applying your knowledge of the marketing mix to an episode of 'Dragon's Den', reading about the top ten equations that changed the world or researching the 'God particle', we hope that these activities inspire you to think independently about your learning. You might even be able to teach the staff a thing or two!

In an increasingly competitive job market, employers are looking for candidates who are able to think creatively and use their initiative to solve problems. Equally, the best universities want students who can think for themselves and participate in their learning. Activities on the super curriculum are designed to allow you to practise these skills and to give you evidence for applications in the future.

You should ask staff for guidance if you are unsure about any of the challenges. Please also tell your teacher when you 'complete' all nine activities for a subject. We will be interested to discuss this with you.

Finally, if you have any ideas about how we can improve the super curriculum, particularly if you have any ideas for challenges, please let your teacher know.

We hope that you enjoy the activities.

Peter Dean
Lead Practitioner, English

Naomi Rose,
Deputy Headteacher

Contents

Art.....	3
Business Studies	4
Computing	5
Design Technology	6
Drama.....	7
Geography.....	10
Health and Social Care	11
History	12
Maths.....	13
Media Studies	14
Music	15
Physical Education.....	16
Philosophy & Religion Education	17
Psychology	18
Science.....	19
Biology	19
Chemistry	20
Physics.....	21
Applied Science	22
Sociology	23

Art

Know It	Use It	Stretch It
<p>Watch extracts from the BBC Series 'The Power of Art' with Simon Schama and make bullet point notes, thinking about how you apply this to your A level study.</p> <p>https://www.bbc.co.uk/arts/powerofart/intro.shtml</p> <p>[3 Super Curriculum House Points]</p>	<p>Join a life drawing class and use the drawings to include in your portfolio.</p> <p>[5 Super Curriculum House Points]</p>	<p>Volunteer to support a KS3 lesson of Art during one of your study periods.</p> <p>[5 Super Curriculum House Points]</p>
<p>Read 'The illustrated story of Art' by DK. Make bullet point notes, thinking about how you apply this to your A level study.</p> <p>https://www.amazon.co.uk/illustrated-story-art-dk/dp/1409316084/ref=sr_1_7?s=books&ie=UTF8&qid</p> <p>[3 Super Curriculum House Points]</p>	<p>Lead an art club and run sessions for younger learners. Take responsibility for creating exciting art work across the school.</p> <p>[3 Super Curriculum House Points]</p>	<p>Present your experience as an annotated journal and include it in your portfolio to share at interview.</p> <p>Share it through the Nobel News or the school's Facebook or Twitter pages.</p> <p>[3 Super Curriculum House Points]</p>
<p>Listen to the Grayson Perry Reith lectures:</p> <ol style="list-style-type: none"> Democracy has bad taste: http://www.bbc.co.uk/programmes/b03969vt Beating the Bounds: http://www.bbc.co.uk/programmes/b03dsk4d Nice rebellion, welcome in! http://www.bbc.co.uk/programmes/b03f9bg7 I found myself in the art world: http://www.bbc.co.uk/programmes/b03g9mn1 <p>[4 Super Curriculum House Points]</p>	<p>Visit the Saatchi Gallery (<u>in person or virtually</u>)</p> <p>https://www.saatchigallery.com/</p> <p>[3 Super Curriculum House Points]</p>	<p>Learn a new technique- Enrol on one of the ART VAN GO Creative Workshops</p> <p>https://www.vycombe-arts.co.uk/</p> <p>[3 Super Curriculum House Points]</p>

Business Studies

Know it	Use it	Stretch it
<p>Watch a TED Talk that relates to a topic from any part of the course. Talk to somebody in your class about the TED Talk and share your opinions about it and make notes of your talking points.</p> <p>[3 Super Curriculum House Points]</p>	<p>Read an autobiography written by an entrepreneur that has inspired you.</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend social sciences research club for a half term.</p> <p>[5 Super Curriculum House Points]</p>
<p>Keep a folder of business news articles that you have read that you believe are of significant importance- highlight the parts that you believe to be most important.</p> <p>[3 Super Curriculum House Points]</p>	<p>Design a presentation about the marketing mix of a product of your choice. Your presentation should have a section on each of the 4 P's. Provide your teacher with a printed version of the PowerPoint.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write your own case study about a business of your choice. Your case study should focus on the different methods of production the business could use to maximise productivity.</p> <p>[4 Super Curriculum House Points]</p>
<p>Research a business that has failed. Explain the financial and non-financial factors that led to the failure of this business.</p> <p>[3 Super Curriculum House Points]</p>	<p>Using research to support your findings, create an organisational structure for a business of your choice, with an explanation about the benefits and limitations of it.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write an article about the benefits and drawbacks of Britain leaving the European Union (Brexit). Take into account what has happened to: inflation, interest rates, government taxation, exchange rates and the business cycle.</p> <p>[5 Super Curriculum House Points]</p>

Computing

Know It	Use It	Stretch It
<p>Get a copy of the book</p> <p>Hello World: How to be Human in the Age of the Machine by Hannah Fry</p> <p>[3 Super Curriculum House Points]</p>	<p>Create a timeline of computing milestones.</p> <p>Start in 1940 and go up to the current day.</p> <p>[2 Super Curriculum House Points]</p>	<p>Attend a Computing club</p> <p>[2 Super Curriculum House Points]</p>
<p>We have ordered several books to go in the library for both computing and IT, please pop in and have a look at any books that interest you.</p> <p>Let us know which books are helpful!</p> <p>[3 Super Curriculum House Points]</p>	<p>Write a book review on a page of A4 for the book that you read.</p> <p>[3 Super Curriculum House Points]</p>	<p>Use Google search to see if you can find IT jobs that were mentioned in the book or relate to the technology in the book.</p> <p>[3 Super Curriculum House Points]</p>
<p>Use the Prospects website to research IT job roles. For example:</p> <p>https://www.prospects.ac.uk/job-profiles/software-engineer</p> <p>[3 Super Curriculum House Points]</p>	<p>Search UCAS for courses that would help you to start a career in IT.</p> <p>https://www.ucas.com/</p> <p>[3 Super Curriculum House Points]</p>	<p>Write a summary of your skills that would help you in some of the IT jobs that you have found.</p> <p>[4 Super Curriculum House Points]</p>

Design Technology

Know It	Use It	Stretch It
<p>Take a trip to London during London design festival.</p> <p>Or</p> <p>Read about the 'Past Landmark Projects' and write your thoughts your favourite design https://www.londondesignfestival.com/</p> <p>[4 Super Curriculum House Points]</p>	<p>Visit the Natural History Museum. http://www.nhm.ac.uk/</p> <p>Or</p> <p>Read and write your thoughts the Natural History Museum 'Discover' section https://www.nhm.ac.uk/discover.html</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend a DT club</p> <p>[2 Super Curriculum House Points]</p>
<p>Watch two TED talks on new and emerging technologies https://www.ted.com/talks</p> <p>[3 Super Curriculum House Points]</p>	<p>Visit the Science Museum; find an interactive exhibition that uses new technology. https://www.sciencemuseum.org.uk/</p> <p>Read and explore the Science Museum Collection https://collection.sciencemuseumgroup.org.uk/search/objects</p> <p>[3 Super Curriculum House Points]</p>	<p>Enter the Young Designer competition.</p> <p>[5 Super Curriculum House Points]</p>
<p>Investigate and research graphene and its application to new and emerging technologies.</p> <p>[2 Super Curriculum House Points]</p>	<p>Choose a fusion 360 tutorial by Lars Christiansen and have a go at it.</p> <p>[3 Super Curriculum House Points]</p>	<p>Start up a KS3 D and T club.</p> <p>[5 Super Curriculum House Points]</p>

Drama

Scheme of Work	Know It	Use It	Stretch it
Set text – Hedda Gabler	Create revision cards for each character including physical appearance, motivation, relationships with others development motivation and intention in each appearance.	Prepare a presentation on your concept for a production in performance. Make sure the presentation covers, staging form, set, costume, lights and sound.	Attend a drama club [2 Super Curriculum House Points]
Set text - Bronte	Create revision cards for each character including physical appearance, motivation, relationships with others development motivation and intention in each appearance.	Prepare a presentation on your concept for a production in performance. Make sure the presentation covers, staging form, set, costume, lights and sound.	Create your own revision guide that you can distribute to your peers. Include your own exam questions for practice.
Component 2 - Devising	Carry out extensive research your chosen stimuli including historical and social context of the artist/author.	Create a storyboard of ideas for chosen idea - include outlines of how each idea would evolve using your chosen practitioners.	Write a script for chosen idea - making sure that your chosen practitioner's ideology is embedded within it.
Component 3 – Text performance	Carry out extensive research into your given play and playwright including historical and social context of the play itself.	Watch previous productions of your chosen play on DVD or on line – make notes of how the actors approached your given role.	Video rehearsals, watch and write a review of the performance as if for a for a newspaper review.
Review	Make revision cards for each live production seen: - include Key moments, Character profiles, lights sound, costume and physical performances.	Create a display about Wicked – find pictures, quotes, reviews making sure that the display acts as an educational tool for your peers.	Create your own revision guide that you can distribute to your peers. Include your own exam questions for practice.

Economics

Know It	Use It	Stretch It
<p>Listen to a Freakonomics Podcasts of your choice from</p> <p>https://freakonomics.com/series/freakonomics-radio/</p> <p>[2 Super Curriculum House Points]</p>	<p>Write a one page summary of the arguments presented in the podcast of your choice.</p> <p>[2 Super Curriculum House Points]</p>	<p>Attend and help at social sciences research club for half a term.</p> <p>[5 Super Curriculum House Points]</p>
<p>Watch The Big Short</p> <p>A film based on a true story which explains the cause of the 2008 Financial Crisis.</p> <p>[3 Super Curriculum House Points]</p>	<p>Using your knowledge from The Big Short and further research create an easy to understand presentation of what caused the financial crisis of 2008</p> <p>[4 Super Curriculum House Points]</p>	<p>Investigate measures taken by the UK government and Bank of England to try and prevent a further financial crisis.</p> <p>[3 Super Curriculum House Points]</p>
<p>Watch <i>Masters of Money</i> – all three parts.</p> <p>https://www.youtube.com/watch?v=CkHooEp3vRE</p> <p>[3 Super Curriculum House Points]</p>	<p>Summarise (less than one page each) the main economic and political views of Keynes, Hayek and Marx from the <i>Masters of Money</i> series.</p> <p>[4 Super Curriculum House Points]</p>	<p>Evaluate the views of Keynes, Hayek and Marx by researching which has been most influential in shaping macroeconomic policy – give examples of countries that illustrate each ideology.</p> <p>[5 Super Curriculum House Points]</p>

English

Know It	Use It	Stretch It
<p>Visit this website and listen to a podcast. This is a great insight into a writer's process! https://longform.org/</p> <p>[2 Super Curriculum House Points]</p>	<p>Now read 2 articles from the longform website and identify the ways that longform writers (like fiction writers) engage the reader.</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend an English club</p> <p>[2 Super Curriculum House Points]</p>
<p>Visit this website and read 2 stories from the fiction section. https://hazlitt.net/fiction</p> <p>[3 Super Curriculum House Points]</p>	<p>Research other literary fiction websites. You could also try: https://www.onethrone.com/</p> <p>[3 Super Curriculum House Points]</p>	<p>Write your own fiction inspired by the stories you have read inside and outside of class.</p> <p>[4 Super Curriculum House Points]</p>
<p>Read a dystopian story of your choice.</p> <p>[3 Super Curriculum House Points]</p>	<p>Research the history of dystopian literature. Create a timeline of the genre.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write your own dystopian short story.</p> <p>[5 Super Curriculum House Points]</p>
<p><i>Please share your findings with your teacher.</i></p>		

Geography

Know it	Use it	Stretch it
<p>Read Geography Review (magazine) from the Library/HU01.</p> <p>[3 Super Curriculum House Points]</p>	<p>Find a relevant article to what you are learning and produce a presentation for your class.</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend a Geography club or support at one</p> <p>[2 Super Curriculum House Points]</p>
<p>Read Wider World (magazine) from the Library/HU01.</p> <p>[3 Super Curriculum House Points]</p>	<p>Research: What have been the main drivers and players leading to the expansion of the globalised world?</p> <p>[4 Super Curriculum House Points]</p>	<p>Write an essay to answer: Is there evidence to suggest that anti-globalisation movements are threatening globalisation processes?</p> <p>[5 Super Curriculum House Points]</p>
<p>Read "Divided" by Tim Marshall.</p> <p>[3 Super Curriculum House Points]</p>	<p>What are the impacts of globalisation on international migration?</p> <p>[3 Super Curriculum House Points]</p>	<p>Answer the following question: What are the threats to national sovereignty in a more globalised world?</p> <p>[3 Super Curriculum House Points]</p>

Health and Social Care

Know It	Use It	Stretch It
<p>Complete a Mooc about nutrition for elderly care: https://www.edx.org/course/carecampus-nutrition</p> <p>[3 Super Curriculum House Points]</p>	<p>Design and make a nutritionally suitable meal for an elderly relative whilst respecting their right to choose. Take photographs of that meal.</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend social sciences research club for half a term.</p> <p>[5 Super Curriculum House Points]</p>
<p>Read the book 'Somebody I used to know' by Wendy Mitchell: https://www.amazon.co.uk/dp/B075RS32TQ/ref=dp_kindle-redirect?encoding=UTF8&btkr=1</p> <p>[3 Super Curriculum House Points]</p>	<p>Investigate the work done by the Alzheimer's Society and outline the ways in which this charity supports people with dementia.</p> <p>[4 Super Curriculum House Points]</p>	<p>Investigate how the Alzheimer's Society is funded and write a plan to state what you could do to help fundraise.</p> <p>[4 Super Curriculum House Points]</p>
<p>Watch the following documentary about harm and abuse in elderly care: https://www.youtube.com/watch?v=VhsPEHz8f4k</p> <p>[2 Super Curriculum House Points]</p>	<p>Produce a blog about nutrition for the elderly.</p> <p>[5 Super Curriculum House Points]</p>	<p>Watch 'The real best Marigold Hotel' and compare the vision of old age presented in the documentary with that in the Panorama documentary: https://www.bbc.co.uk/programmes/b08fpbkd</p> <p>[3 Super Curriculum House Points]</p>

History

Know It	Use It	Stretch It
<p>Keep a reading journal of articles, essays and additional books you have read</p> <p>There are many books in the history department and copies of the "History Review" in the library.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write a journal article on a controversial topic we have studied giving your historical view.</p> <p>[5 Super Curriculum House Points]</p>	<p>Go to the school History club and get involved in some of their exciting events!</p> <p>[3 Super Curriculum House Point]</p>
<p>Read a biography / autobiography of a historical figure we have studied as part of your A-Level.</p> <p>[4 Super Curriculum House Points]</p>	<p>Analyse a historical source from the GDR era.</p> <p>Create a presentation for your class on its usefulness</p> <p>[3 Super Curriculum House Points]</p>	<p>Write an academic review of a recently published historical work in a field you are interested in.</p> <p>We have looked at examples of academic reviews as part of our coursework.</p> <p>[5 Super Curriculum House Points]</p>
<p>Listen to Dan Snow's "History Hit" podcast: https://www.historyhit.com/podcasts/</p> <p>There are hundreds to choose from!</p> <p>[3 Super Curriculum House Points]</p>	<p>Create a detailed timeline for each historical period we have studied including a minimum of 50 events.</p> <p>[3 Super Curriculum House Points]</p>	<p>Read a Historical non-fiction book about a period of history you have never studied before e.g. Ancient China.</p> <p>[3 Super Curriculum House Points]</p>

Maths

Know It	Use It	Stretch It
<p>Watch the videos from the Exam Solutions website to support your learning in lessons:</p> <p>https://www.examsolutions.net/a-level-maths/edexcel/</p> <p>[3 Super Curriculum House Points]</p>	<p>Consolidate a set of notes from these and ensure that all worked solutions you use are fully understood.</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend a maths club</p> <p>[2 Super Curriculum House Points]</p>
<p>Use Dr Frosts Maths resources and PowerPoints, like this one on binomial expansion:</p> <p>https://www.drfrostmaths.com/resource.php?rid=276</p> <p>[3 Super Curriculum House Points]</p>	<p>Look at madasmaths.com, Some amazing and challenging questions and a website that will undoubtedly help you with your revision.</p> <p>https://app.mymaths.co.uk/myportal/library/9/455</p> <p>[4 Super Curriculum House Points]</p>	<p>Research Dr Igor Kntorovich</p> <p>You will learn about problem solving, proving and more.</p> <p>[3 Super Curriculum House Points]</p>
<p>Research graph theory and Euler and then try:</p> <p>Bridge crossing question <u>Activity: The Seven Bridges of Königsberg - Math is Fun</u></p> <p>[3 Super Curriculum House Points]</p>	<p>Watch and try the puzzles from Dara O Briain School of Hard Maths.</p> <p>[3 Super Curriculum House Points]</p>	<p>Film: The Story of 1</p> <p><i>The Story of 1</i> is a BBC documentary about the history of numbers, and in particular, the <u>number 1</u>.</p> <p>It is presented by former Monty Python member Terry Jones. It was released in 2005.</p> <p>[4 Super Curriculum House Points]</p>

Media Studies

Know It	Use It	Stretch It
<p>MEDIA AUDIENCES TERMINOLOGY</p> <p>Create a description, with example, for each of the following: <i>Conglomerate</i>, <i>Independent</i>, <i>Cross media ownership</i>, <i>Commercial</i>, <i>Public service broadcaster</i>, <i>Joint venture</i>, <i>Vertical integration</i>, <i>Horizontal integration</i>, <i>Synergy</i>, <i>Production process</i></p> <p>[3 Super Curriculum House Points]</p>	<p>APPLICATION</p> <p>Watch Christopher Nolen's Movies That Made Me (https://www.bbc.co.uk/iplayer/episode/p05q4k47/movies-with-ali-plumb-christopher-nolan-movies-that-made-me)</p> <p>What are Nolen's key abilities as a director?</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend a media club</p> <p>[5 Super Curriculum House Points]</p>
<p>KEY THEORIES</p> <p>Summarise the following theories:</p> <ul style="list-style-type: none"> • Todorov's Narrative • Mulvey's Male Gaze • Rick Altman's Genre • Hyperdermic Needle • Uses and Gratifications <p>[3 Super Curriculum House Points]</p>	<p>MICRO-ANALYSIS</p> <p>Find a screen shot from one of your favourite films – label which camera shot & camera angle has been used. Identify the mise en scène elements within the shot: costume, lighting, props, positions, setting. Explain why you think it is effective.</p> <p>[3 Super Curriculum House Points]</p>	<p>FILMING</p> <p>Film a vlog where you review a film you have recently watched. Express your opinions; support your criticism with evidence from the film. Consider the acting, directing, plot, cinematography without giving away any spoilers!</p> <p>[3 Super Curriculum House Points]</p>
<p>ADVERTISING</p> <p>Research the Kerrang! Brand, Look specifically for the festivals that the brand sponsors. Think of ways in which Kerrang!'s presence at music festivals might be promoted across the media platforms it operates over.</p> <p>[3 Super Curriculum House Points]</p>	<p>WRITING</p> <p>Write an article, on a subject of your choice, for EMC Media Magazine. Email your to 1,000 – 1,500 word article to jenny@englishandmedia.co.uk. It could be about media careers, genres or concepts e.g. media representations or detailed analysis of an artist's coverage.</p> <p>[3 Super Curriculum House Points]</p>	<p>EDITING</p> <p>Download this, or any unedited footage you can get, https://www.youtube.com/watch?v=W3vi4HPblw0 and use some editing software to create an intro to a TV programme of your own genre choice.</p> <p>[3 Super Curriculum House Points]</p>

Music

Know It	Use It	Stretch It
<p>Listen to 'Episode No.2: Bach's Sacred Cantatas at Weimar' from the 'The J.S. Bach Files Podcast'.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write an arrangement of the hymn tune 'Ein feste Burg ist unser Got' for piano or four-part choir.</p> <p>[4 Super Curriculum House Points]</p>	<p>Write an outline of what to listen for in a Bach Cantata.</p> <p>[5 Super Curriculum House Points]</p>
<p>Listen to the 'Ralph Vaughan Williams (1872-1958)' episode of the Composer of the Week podcast from 8 April 2016.</p> <p>[3 Super Curriculum House Points]</p>	<p>Find a short poem of your choice, and write an art-song setting the words. Write the song for one voice and piano. Use at least two examples of word-painting.</p> <p>[4 Super Curriculum House Points]</p>	<p>Learn to sing or play 'On Wenlock Edge' by Vaughan Williams – either as a solo singer, or a piano arrangement that includes the melody.</p> <p>Use the score in the A level anthology to help you.</p> <p>[5 Super Curriculum House Points]</p>
<p>Watch the video below: https://www.youtube.com/watch?v=ZQS91wVdvYc</p> <p>[3 Super Curriculum House Points]</p>	<p>Write a verse and chorus of a pop song for voice and at least one accompaniment instrument.</p> <p>Use at least one unexpected minor chord, and write the chorus in a key that is one tone lower than the verse.</p> <p>[4 Super Curriculum House Points]</p>	<p>Record the sitar, bass, drums and vocal parts of 'Tomorrow Never Knows' (from your anthology) into GarageBand. Add your own loops to create an unusual soundscape – be as creative as possible.</p> <p>[5 Super Curriculum House Points]</p>

Physical Education

Know It	Use It	Stretch It
<p>Read the journals of: - Applied physiology, sport and society - Sport and exercise psychology</p> <p>Ask your PE teacher about how to locate these.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write a glossary of anatomy and physiology used in your sport.</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend a school sports club. Consider trying a new sport or leading a warm up.</p> <p>[4 Super Curriculum House Points]</p>
<p>Lead an activity for Inter House Sport</p> <p>[4 Super Curriculum House Points]</p>	<p>Research an area of interest within sport and present your findings in a poster/leaflet/written article</p> <p>[3 Super Curriculum House Points]</p>	<p>Create a coaching plan for any sport.</p> <p>[3 Super Curriculum House Points]</p>
<p>Watch the following documentaries/films:</p> <ul style="list-style-type: none"> • Icarus (2017) Bryan Fogel, Netflix • Sports Science (2013) ESPN • The Program (2015) <p>[4 Super Curriculum House Points]</p>	<p>Write a report on one of the films/documentaries you've watched and state the main findings from it.</p> <p>[3 Super Curriculum House Points]</p>	<p>Assess another performance and highlight areas of strength and areas for development.</p> <p>[4 Super Curriculum House Points]</p>

Philosophy & Religion Education

Know It	Use It	Stretch It
<p>Existence of God: Read Chapter 1 of The God Delusion by Richard Dawkins (details available on reading list)</p> <p>[2 Super Curriculum House Points]</p>	<p>The Person Jesus: Read Chapter 3 of The Puzzle of Christianity by Peter Vardy (details available on reading list)</p> <p>[2 Super Curriculum House Points]</p>	<p>Christian Moral Principles: Read Chapter 12 of The Puzzle of Christianity by Peter Vardy (details available on reading list)</p> <p>[2 Super Curriculum House Points]</p>
<p>Business ethics: Explore the case study of Union Carbide in Bhopal. Watch the full BBC documentary on the events (BBC one night in Bhopal) https://www.youtube.com/watch?v=rJq19W8x_Ls</p> <p>[3 Super Curriculum House Points]</p>	<p>Natural law: Online research on peped.com - Summary: The Natural Law https://aquinasonline.com/natural-law/</p> <p>Read and make your own notes on this topic.</p> <p>[3 Super Curriculum House Points]</p>	<p>Plato: Online research on peped.com - Table: World of Forms (http://peped.org/philosophicalinvestigations/tableworldoftheforms/) Read and make the table into two pictures, one of the empirical world and one of the realm of the forms. Label each appropriately.</p> <p>[3 Super Curriculum House Points]</p>
<p>Dualism: Listen to the following podcast on consciousness and mind https://iai.tv/iai-podcast/episodes-1-5 E0 Matter And Mind Markus Gabriel, Ray Brassier, Eva Jablonka</p> <p>[3 Super Curriculum House Points]</p>	<p>Level: Book yourself onto one of Peter Vardy's Candle Conferences (cost £8 per student) https://candleconferences.com/event-categories/students/</p> <p>OR come and help run either philosophy film club or mindfulness club at lunchtime for a few weeks</p> <p>[5 Super Curriculum House Points]</p>	<p>Business Ethics: Listen to the following podcast on Capitalism https://iai.tv/iai-podcast/episodes-6-10 E10 Capitalism And Anarchy Aaron Bastani, Stephen King, Deirdre McCloskey</p> <p>[3 Super Curriculum House Points]</p>

Psychology

Know It	Use It	Stretch It
<p>Identify the functions of the left hemisphere of the brain and discuss how damage to this side of the brain might affect behaviour.</p> <p>[2 Super Curriculum House Points]</p>	<p>Research the importance of context on memory and create a PowerPoint that could be shared with key stage 3 in order to advise them on how to improve their study habits for exams.</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend and help out at psychology club for half a term.</p> <p>[5 Super Curriculum House Points]</p>
<p>Distinguish between the biological and social factors that influence crime. Research at least two biological and two social factors and discuss which ones you agree the most with and why.</p> <p>[3 Super Curriculum House Points]</p>	<p>Watch a court case at Stevenage Magistrates court in order to understand the judicial system and the effects of society on crimes.</p> <p>https://courtribunalfinder.service.gov.uk/courts/stevenage-magistrates-court?aol=All&postcode=SG2%207JP</p> <p>[4 Super Curriculum House Points]</p>	<p>Write an article about how you think the criminal justice system could be improved based on the court case that you observed:</p> <p>https://www.prisonexp.org/</p> <p>[4 Super Curriculum House Points]</p>
<p>Watch the documentary “BBC Mental: A History of the Madhouse” and identify the differences between mental asylums in the past in comparison to mental health institutes now.</p> <p>https://www.youtube.com/watch?v=oswUssXzFIY</p> <p>[3 Super Curriculum House Points]</p>	<p>Get involved with ‘Time to change’ by becoming a ‘time to change Champion’, writing a blog about attitudes to mental health. Take part in a time to talk day.</p> <p>https://www.time-to-change.org.uk/get-involved</p> <p>[4 Super Curriculum House Points]</p>	<p>Research the “care into the community act” that took place in the 1990s and write a critical analysis of this movement in order to identify its strengths and limitations and its effects in the wider society.</p> <p>[3 Super Curriculum House Points]</p>

Science

Biology

Know It	Use It	Stretch It
<p>Plan and carry out your own experiment. This must be based around a module in the OCR A Level specification. Please remember to include images.</p> <p>Create a presentation that outlines the following:</p> <ul style="list-style-type: none"> -Question -Prediction -Hypothesis -Protocol -Data -Conclusion <p>[3 Super Curriculum House Points]</p>	<p>Use google scholar to read samples of different biological papers related to your experiment.</p> <p>Use your research and the information contained within the scientific publications to write up a formal report. Minimum of 2 pages typed.</p> <p>Sources must be cited.</p> <p>[4 Super Curriculum House Points]</p>	<p>Take part in the Science club and help to deliver one of the weekly tasks/experiments.</p> <p>[5 Super Curriculum House Points]</p>
<p>Transpiration – Create a 3-D replica of a plant species of your choosing. Label and provide a key on the transpiration stream.</p> <p>[3 Super Curriculum House Points]</p>	<p>Choose a species of plant (either in person or online) and outline its unique adaptations that enable its survival. Site sources if used. Look into the binomial name of the species and begin looking into why it is given the name it has.</p> <p>[4 Super Curriculum House Points]</p>	<p>Record and deliver your own version of a TED talk based on your experiment and the conclusions you were able to make.</p> <p>[5 Super Curriculum House Points]</p>
<p>Create a model that demonstrates/illustrates the principles of osmosis into and out of a cell.</p> <p>[3 Super Curriculum House Points]</p>	<p>Watch a video on the egg osmosis lab. https://www.youtube.com/watch?v=SSS3EtKAZYc After watching the video, conduct the experiment at home and calculate the percent change of the egg mass.</p> <p>[4 Super Curriculum House Points]</p>	<p>Conduct the water potential /osmosis lab on two – three different vegetables. After, calculate the percent change and compare your results. Using your data table and graph, draw a conclusion as to why certain vegetables may have different cellular water potentials.</p> <p>[5 Super Curriculum House Points]</p>

Chemistry

Know It	Use It	Stretch It
<p>Make a list of objects in your house made of one element alone and a list of objects made of compounds.</p> <p>[3 Super Curriculum House Points]</p>	<p>Calculate your carbon foot print:</p> <p>https://footprint.wwf.org.uk/</p> <p>Make a plan of ways to reduce it</p> <p>[4 Super Curriculum House Points]</p>	<p>Consider the ways that you organise data, objects or things to do in your everyday life. See if you can organise and group some data in a table like the periodic table where, going across the table has one set of information and down it another.</p> <p>[5 Super Curriculum House Points]</p>
<p>Take photos of methods used to separate mixtures in your household, explain how they work.</p> <p>[3 Super Curriculum House Points]</p>	<p>Choose several ordinary items and explain what they are made of and how the bonding of that material helps the object do its job. Then research the properties of the material and explain how they relate to the bonding.</p> <p>[4 Super Curriculum House Points]</p>	<p>Imagine you are a bowl of water. Describe and explain what happens to you as you cool down and heat up. Use ideas about intermolecular forces to help you explain.</p> <p>[5 Super Curriculum House Points]</p>
<p>Make a list of products made from the products of crude oil around the home and street.</p> <p>[3 Super Curriculum House Points]</p>	<p>Help your parent or carer the next time they visit the local recycling centre. Take note of the different elements in the objects you are recycling. Link their properties to their structure and bonding.</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend Chemistry Café with Ms Redmond, Head of Chemistry, and join in on discussions about current topics.</p> <p>[5 Super Curriculum House Points]</p>

Physics

Know It	Use It	Stretch It
<p>Electricity: Produce a set of flash cards which summarise the symbols and function of components</p> <p>[3 Super Curriculum House Points]</p>	<p>Electricity: Research transistors. Design / build a circuit which makes use of them as a switch.</p> <p>[4 Super Curriculum House Points]</p>	<p>Volunteer at a year 11 tutoring session or KS3 science club.</p> <p>[5 Super Curriculum House Points]</p>
<p>Motion: Summarise the forces and acceleration which takes place during a rocket launch. How do the key parameters (e.g. mass / velocity) change.</p> <p>[3 Super Curriculum House Points]</p>	<p>Motion: Research the bloodhound supersonic car. What aerodynamic features are there that limit drag / air resistance. Produce a slide which you could use to teach a friend.</p> <p>[4 Super Curriculum House Points]</p>	<p>Motion: Create a model of projectile motion on an excel spreadsheet / computer program.</p> <p>[5 Super Curriculum House Points]</p>
<p>Waves: Imagine you have been asked to help a Year 11 with revision – make a plan for how you would teach the key concepts in waves (electromagnetic and compression)</p> <p>[3 Super Curriculum House Points]</p>	<p>Waves: Investigate how the wave velocity of sound changes in different mediums. Design a device which could make use of this and produce a one page summary.</p> <p>[4 Super Curriculum House Points]</p>	<p>Waves: Research how earthquakes are detected and monitored on Earth. Research the Insight lander (NASA). Create a poster which summarises the differences in detecting earthquakes on Mars.</p> <p>[5 Super Curriculum House Points]</p>

Applied Science

Know It	Use It	Stretch It
<p>Create a poster or mind map outlining the different types of tissue found in a human body.</p> <p>[3 Super Curriculum House Points]</p>	<p>Create a model using household objects of a plant or animal cell.</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend/ help out with a Science club for at least three weeks in a row</p> <p>[5 Super Curriculum House Points]</p>
<p>Make a list of objects in your house made of one element alone and a list of objects made of compounds.</p> <p>[3 Super Curriculum House Points]</p>	<p>Choose several ordinary items and explain what they are made of and how the bonding of that material helps the object do its job. Then research the properties of the material and explain how they relate to the bonding.</p> <p>[4 Super Curriculum House Points]</p>	<p>Create a lesson plan to teach a year 11 class about the structure of an atom, and how this relates to features of bonding.</p> <p>[5 Super Curriculum House Points]</p>
<p>Find three references discussing topics covered within Applied Science so far and write a paragraph on each considering their reliability.</p> <p>[3 Super Curriculum House Points]</p>	<p>Find a graph relating to enzyme activity using an online source and describe and explain the trends. Make sure to reference your course.</p> <p>[4 Super Curriculum House Points]</p>	<p>Write a guide for a year 11 student started Ctech Applied Science, explaining to them how to reference their work correctly, and how to find relevant and valid sources.</p> <p>[5 Super Curriculum House Points]</p>

Sociology

Know It	Use It	Stretch It
<p>GENDER INEQUALITY Investigate the Gender and Education Association. Write a report detailing what can and is being done to combat gender inequality in schools?</p> <p>[3 Super Curriculum House Points]</p>	<p>CONDUCT RESEARCH Conduct your own research into how students are affected by processes within school (e.g. league tables, streaming, labelling, ethnocentric curriculum) You can choose your own method, justify why you chose it, conduct your research and then create a display of your findings and conclusions.</p> <p>[4 Super Curriculum House Points]</p>	<p>ENRICHMENT Attend a lunchtime club that links to sociology. You need to be able to justify how the club links to sociology or a topic that you have studied.</p> <p>[5 Super Curriculum House Points]</p>
<p>DOMESTIC VIOLENCE Investigate domestic violence: produce an information leaflet on the nature and extent of domestic violence in UK families.</p> <p>[3 Super Curriculum House Points]</p>	<p>DOMESTIC LABOUR Read the Fawcett Society report on 'Parents, Work and Care: Striking the Balance.' Explain how the findings relate to the research of feminists such as Oakley, Duncombe and Marsden https://www.fawcettsociety.org.uk/parents-work-and-care-striking-the-balance</p> <p>[4 Super Curriculum House Points]</p>	<p>EDUCATIONAL POLICY Using sociological evidence and additional research, write a critical evaluation of the academy school system in the UK. Has it been effective at raising standards in UK schools?</p> <p>[5 Super Curriculum House Points]</p>
<p>MARXIST THEORY Watch the BBC video entitled 'Karl Marx on Alienation' – explain what is meant by 'alienation'. Do you think workers are still alienated in our current economy? How would a Marxist argue education prepares workers for alienating labour?</p> <p>https://www.bbc.co.uk/programmes/p02h7dly</p> <p>[3 Super Curriculum House Points]</p>	<p>CHILDHOOD Read the following essay on the disappearance of childhood and produce a critical evaluation on whether childhood is disappearing or whether the march of progress idea of extended childhood or whether Palmer's view on toxic childhood is more accurate. 'To what extent is childhood disappearing?' http://www.faculty.rsu.edu/users/f/felwell/www/Theorists/Essays/Poetman1.html</p> <p>[4 Super Curriculum House Points]</p>	<p>SOCIAL POLICY Create a list of social problems we have addressed/uncovered for each topic in education and families and households. For each, come up with a social policy which could address this issue and explain how.</p> <p>[5 Super Curriculum House Points]</p>