



Nobel

**Year 10
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 you enjoy the activities.

Peter Dean
Lead Practitioner, English

Naomi Rose,
Deputy Headteacher

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Art

Know It	Use It	Stretch It
<p>Use and take notes from GCSE Bitesize Art and Design:</p> <p>https://www.bbc.com/bitesize/subjects/z6hs34j</p> <p>[2 Super Curriculum House Points]</p>	<p>Visit virtually or in person any of the Tate Galleries including: Tate Britain, Tate Modern, Tate Liverpool or Tate St Ives:</p> <p>http://www.tate.org.uk/visit/tatmodern http://www.tate.org.uk/visit/tateliverpool http://www.tate.org.uk/visit/tate-stives</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend Art club or any other extra-curricular creative activity and show evidence of what you have made.</p> <p>[5 Super Curriculum p House Points]</p>
<p>Explore 10 Textile Artists and their techniques:</p> <p>https://www.textileartist.org/10-contemporary-embroidery-artists</p> <p>[2 Super Curriculum House Points]</p>	<p>Visit one of the annual Knit, stitch shows, and complete one of the free workshops on offer:</p> <p>https://www.theknittingandstitchingshow.com/</p> <p>[3 Super Curriculum House Points]</p>	<p>Record your experiments with the new techniques and make textile samples inspired by your artist research.</p> <p>Share with your Art teacher and class.</p> <p>[3 Super Curriculum House Points]</p>
<p>Research the development of Graphic Design over the last 50 Years:</p> <p>http://graphics50.rca.ac.uk/#about</p> <p>[2 Super Curriculum House Points]</p>	<p>Try out some advanced techniques using Photoshop:</p> <p>https://blog.advancedphotoshop.co.uk/category/tutorials/</p> <p>[3 Super Curriculum House Points]</p>	<p>Fill a concertina sketchbook with records of all your Art activities documenting the journey across many pages through drawing, photography and mixed media.</p> <p>[4 Super Curriculum House Points]</p>

Business Studies

Know it	Use it	Stretch it
<p>Watch an episode of The Apprentice and identify the entrepreneurial skills, qualities and motives that the candidates display, and that Lord Sugar states that he wants to see.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write a one-page summary about the life of an entrepreneur that you admire, focusing on how the entrepreneur became successful.</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>Create a storyboard that shows the stages that a market researcher has to go through when creating and conducting a questionnaire.</p> <p>[3 Super Curriculum House Points]</p>	<p>Conduct a piece of primary market research for a topic of your choice, ensuring that you ask questions that will provide you with both qualitative and quantitative data.</p> <p>[4 Super Curriculum House Points]</p>	<p>Conduct a piece of market research for a topic of your choice, then use Microsoft Excel to help you to analyse your results. Put your findings into a PowerPoint presentation or report and hand it to your teacher.</p> <p>[5 Super Curriculum House Points]</p>
<p>Find an article about a business that has struggled financially. Think about ways that the business could have improved their cash flow to minimise their financial difficulties.</p> <p>[3 Super Curriculum House Points]</p>	<p>‘Businesses should make every effort to make sure that they are meeting each of the four customer needs in order to be successful’.</p> <p>Evaluate this statement, creating an argument for and against.</p> <p>[4 Super Curriculum House Points]</p>	<p>Write your own case study about a business of your choice. Your case study should focus on what the business’ stakeholders are, and how the business takes action to make sure that they are meeting all of their stakeholders’ interests.</p> <p>[5 Super Curriculum House Points]</p>

Computing

Know It	Use It	Stretch It
<p>Watch the movie “The Imitation Game”, to discover how Alan Turing used code-breaking to make the first computers.</p> <p>[2 Super Curriculum House Points]</p>	<p>Have a go yourself at beating a computer opponent at chess:</p> <p>https://www.chess.com/play/computer</p> <p>[2 Super Curriculum House Points]</p>	<p>Attend a Computing club</p> <p>[2 Super Curriculum House Points]</p>
<p>Create a wire frame for a website on a topic or company that interests you.</p> <p>You can be as creative as you like. You might even do it for a family member or friend of the family and get their feedback.</p> <p>[3 Super Curriculum House Points]</p>	<p>Computer Science Fundamentals - A collection of interactive quizzes that will help you master computer science fundamentals.</p> <p>https://brilliant.org/courses/computer-science-essentials/</p> <p>[2 Super Curriculum House Points]</p>	<p>Research The Internet of Things: Probably the most pervasive trend is the Web of Things, where just about everything we interact with becomes a computable entity.</p> <p>Research how future developments in this area may change or revolutionise our lives even further.</p> <p>[2 Super Curriculum House Points]</p>
<p>Python - Develop your Python programming skills by challenging yourself to complete as many tasks on Snakify as you can.</p> <p>https://snakify.org/</p> <p>[2 Super Curriculum House Points]</p>	<p>Try to set up Python to perform some basic maths calculations to match some topics you have been using in mathematics, does Python use BIBMAS?</p> <p>[2 Super Curriculum House Points]</p>	<p>Intelligent Machines –</p> <p>Write a short essay debating the following question – <i>Are computers more intelligent than the people who make them?</i></p> <p>[3 Super Curriculum House Points]</p>

Dance

Know it	Use it	Stretch it
<p>Keep a scrapbook of interesting dance choreography starting points.</p> <p>[3 Super Curriculum House Points]</p>	<p>Research the work of Christopher Bruce</p> <p>[3 Super Curriculum House Points]</p>	<p>Write an article for the school newsletter on your findings of the political work Christopher Bruce has created.</p> <p>[4 Super Curriculum House Points]</p>
<p>Watch a professional dance performance.</p> <p>[3 Super Curriculum House Points]</p>	<p>Read articles from the dancing times. www.dancing-times.co.uk</p> <p>[3 Super Curriculum House Points]</p>	<p>Write up a piece for the school Dance display.</p> <p>[4 Super Curriculum House Points]</p>
<p>Research the career of James Cousins</p> <p>[3 Super Curriculum House Points]</p>	<p>Think about your own life experiences based dance. What would be your Dance intention?</p> <p>[3 Super Curriculum House Points]</p>	<p>Come and lead the Nobel Youth Dance Company club.</p> <p>[5 Super Curriculum House Points]</p>

Design Technology

Know It	Use It	Stretch It
<p>Identify a STEM employer in your local area.</p> <p>[2 Super Curriculum House Points]</p>	<p>Visit the Natural History museum.</p> <p>http://www.nhm.ac.uk/</p> <p>Or</p> <p>Read the Natural History Museum 'Discover' section</p> <p>https://www.nhm.ac.uk/discover.html</p> <p>[2 Super Curriculum House Points]</p>	<p>Attend a DT club</p> <p>[2 Super Curriculum House Points]</p>
<p>Take a trip to London during the Design Festival.</p> <p>[2 Super Curriculum House Points]</p>	<p>Visit the Science museum; find an interactive exhibition that uses new technology:</p> <p>https://www.sciencemuseum.org.uk/</p> <p>Or</p> <p>Read and explore the Science Museum Collection</p> <p>https://collection.sciencemuseumgroup.org.uk/search/objects</p> <p>[2 Super Curriculum House Points]</p>	<p>Listen to two TED talks on emerging technologies:</p> <p>https://www.ted.com/talks</p> <p>[2 Super Curriculum House Points]</p>
<p>Listen to a STEM talk podcast:</p> <p>www.ihmc.us.stemtalks</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>[2 Super Curriculum House Points]</p>	<p>Look into upcycling, pick a project and have a go at it.</p> <p>[2 Super Curriculum House Points]</p>

Drama

Scheme of Work	Know It	Use It	Stretch it
Status/Brecht/Greek theatre	Read a Brecht play and a Greek play and make note of the similarities and differences between them. [3 super curriculum Points]	Give a presentation about Greek theatre and the playwrights of the time to your class. [3 super curriculum Points]	Attend a drama club [2 Super Curriculum House Points]
Stanislawski/Monologues	Watch one Alan Bennett's Talking head monologues and make a note of all the theatrical devices used by the actor and director. [2 super curriculum Points]	Find a comic monologue; prepare it for performance. [3 super curriculum Points]	Audition and take part in a school production. [3 super curriculum Points]
DNA	Read another play by Dennis Kelly and note the similarities and differences between them. [2 super curriculum Points]	Prepare a section of the play to direct and perform to the class. [3 super curriculum Points]	Write your own play about a teenage gang that gives a contemporary view on the society in which we live. [3 super curriculum Points]
Devising and Practitioners	Keep a scrapbook of ideas, stimuli and interesting articles pictures etc that could be used for the start of a piece of drama. [2 super curriculum Points]	Research and create a display on a theatre practitioner of your choice- make sure your display is bright, eye-catching and full of educational material. [3 super curriculum Points]	Prepare and deliver a workshop on a theatre practitioner not yet studied in class. Set PLT at the end of your session. [3 super curriculum Points]
Exam Preparation	Carry out extensive research into each stimuli including historical and social context of each one. [2 super curriculum Points]	Create a story board of ideas for each of the stimuli- include outlines of how each idea would evolve using different practitioners. [2 super curriculum Points]	Write a script for your favourite idea- include 5 different elements of your chosen practitioner within your writing. [3 super curriculum Points]

English

Know It	Use It	Stretch It
<p>Three years after 'An Inspector Calls' was first performed, 'Death of a Salesman' was performed in New York, USA.</p> <p>Read an online copy of the play or watch a performance on youtube.</p> <p>Make a Venn diagrams of similarities and differences.</p> <p>[3 Super Curriculum House Points]</p>	<p>Read 'Tragedy and the Common Man' by Arthur Miller.</p> <p>He gives his views about what should make a modern tragedy.</p> <p>Read this and make relevant bullet point notes.</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend an English club</p> <p>[2 Super Curriculum House Points]</p>
<p>You are studying the 'Power and Conflict' collection of the AQA GCSE literature anthology.</p> <p>Read 'The Farmer's Bride' from the 'Love and Relationships' collection (found online) and analyse it as an unseen poem.</p> <p>[2 Super Curriculum House Points]</p>	<p>Watch and make notes on this video about the poem:</p> <p>https://www.youtube.com/watch?v=WaCmQObF_rg</p> <p>[2 Super Curriculum House Points]</p>	<p>Find one more poem from the 'Love and Relationships' collection and make a poster to summarise the differences.</p> <p>[2 Super Curriculum House Points]</p>
<p>Find two examples of successful pitches on 'Dragons Den'.</p> <p>[2 Super Curriculum House Points]</p>	<p>Make a list of the verbal and non-verbal techniques that you can use in a persuasive speech.</p> <p>[2 Super Curriculum House Points]</p>	<p>Write a persuasive speech to make this argument:</p> <p>The best poem in the 'Power and Conflict' anthology is [...]</p> <p>[3 Super Curriculum House Points]</p>

Food Technology

Know It	Use It	Stretch It
<p>Research current food trends in the UK by using BBC Good Food website or the internet.</p> <p>[3 Super Curriculum House Points]</p>	<p>Use the internet or go into a supermarket or food store e.g., M&S to see the products which include these trends. Write a list of foods that contain these trends and explain how they include the trend.</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend Food Tech club 3 times in a row.</p> <p>[5 Super Curriculum House Points]</p>
<p>Practise KS3 and KS4 practical skills e.g. enriched pastry or dough, separating egg whites for meringue making.</p> <p>[3 Super Curriculum House Points]</p>	<p>Make a dish incorporating KS3 and KS4 skills.</p> <p>[4 Super Curriculum House Points]</p>	<p>Create a product incorporating KS3 skills, KS4 skills and a latest food trend.</p> <p>[5 Super Curriculum House Points]</p>
<p>Go to the library or use the internet to access a broadsheet newspaper and read current articles on food e.g., sourcing, dietary needs, nutrition.</p> <p>[3 Super Curriculum House Points]</p>	<p>Make notes on the articles.</p> <p>[4 Super Curriculum House Points]</p>	<p>See your Food Tech teacher and explain what you have learnt.</p> <p>[5 Super Curriculum House Points]</p>

Geography

Know It	Use It	Stretch It
<p>Read Geography Review (magazine) from the Library.</p> <p>[2 Super Curriculum House Points]</p>	<p>Find a relevant article to what you're learning and produce a presentation for your class.</p> <p>[2 Super Curriculum House Points]</p>	<p>Attend Geography Club.</p> <p>[2 Super Curriculum House Points]</p>
<p>Read Wider World (magazine) from the Library/Hu01.</p> <p>[2 Super Curriculum House Points]</p>	<p>Create a revision quiz/notes for a topic you have studied.</p> <p>[2 Super Curriculum House Points]</p>	<p>Plan and visit a National Park. Look at how tourism is managed and the physical geography in the area. You can do this in real life or virtually using google Streetview.</p> <p>[3 Super Curriculum House Points]</p>
<p>Learn the key words in the GCSE textbook.</p> <p>[2 Super Curriculum House Points]</p>	<p>Create a map skills quiz for your class using an OS map of Stevenage.</p> <p>[2 Super Curriculum House Points]</p>	<p>Visit the coast or a river and look at how flooding/the coast is managed. You can do this in real life or virtually using google Streetview.</p> <p>[3 Super Curriculum House Points]</p>

Health and Social Care

Know It	Use It	Stretch It
<p>Visit your GP and look at disabled access. What adjustments have been made to support people with disabilities. Make a note of these.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write a letter to the local paper about increasing disabled access to a public building where you know access is difficult.</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>Complete three online first aid modules with the Red Cross:</p> <p>https://www.redcross.org.uk/first-aid/learn-first-aid</p> <p>[4 Super Curriculum House Points]</p>	<p>Produce a poster about administering CPR when someone has stopped breathing.</p> <p>[3 Super Curriculum House Points]</p>	<p>Complete three online first aid modules for babies and children with the Red Cross:</p> <p>https://www.redcross.org.uk/first-aid/learn-first-aid-for-babies-and-children</p> <p>[4 Super Curriculum House Points]</p>
<p>Watch the following documentary about failure to treat patients with dignity and respect at Stafford Hospital:</p> <p>https://www.youtube.com/watch?v=iHXOFS9ec2Q</p> <p>[3 Super Curriculum House Points]</p>	<p>Read the following newspaper report about what happened next at Stafford Hospital.</p> <p>https://www.bbc.co.uk/news/uk-england-stoke-staffordshire-50836324</p> <p>[2 Super Curriculum House Points]</p>	<p>Contribute to the school's newsletter with a report on how important it is to treat people with dignity and respect in Health and Social Care situations.</p> <p>[5 Super Curriculum House Points]</p>

History

Know It	Use It	Stretch It
<p>Read a piece of historical fiction relating to a topic we have studied e.g. 'The Book Thief'. There are lots of books to choose from in the library and the History department.</p> <p>[3 Super Curriculum House Points]</p>	<p>Practise writing exam style answer using the practise questions and guidance on the VLE revision page.</p> <p>[3 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 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>[2 Super Curriculum House Points]</p>	<p>Create a detailed timeline for each historical period we have studied including a minimum of 25 events.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write a "how to guide" for one type of exam question showing how to write the perfect answer.</p> <p>[4 Super Curriculum House Points]</p>
<p>Watch the film "Hitler: The Rise of Evil" – available on YouTube at:</p> <p>https://www.bing.com/videos/search?q=hitler+rise+of+evil+youtube&view=detail&mid=258D5190A9A3B893E543258D5190A9A3B893E543&FORM=VIRE</p> <p>[2 Super Curriculum House Points]</p>	<p>Design a revision resource for a key topic we have studied and share it with the rest of your class.</p> <p>[3 Super Curriculum House Points]</p>	<p>Read a biography or autobiography of a historical figure we have studied as part of your GCSE.</p> <p>[3 Super Curriculum House Points]</p>

Maths

Know It	Use It	Stretch It
<p>Complete 5 Memri sessions over the course of the year on Hegarty Maths.</p> <p>[3 Super Curriculum House Points]</p>	<p>Have a go yourself at beating a computer opponent at chess:</p> <p>https://www.chess.com/play/computer</p> <p>[2 Super Curriculum House Points]</p>	<p>See how we have used computers to solve mathematical problems:</p> <p>The Four Colour Map Theorem</p> <p>https://youtu.be/NgbK43jB4rQ</p> <p>[2 Super Curriculum House Points]</p>
<p>Use onmaths.com to look at some of the GCSE topics and attempt some of the online topic tests to see how you get on.</p> <p>[3 Super Curriculum House Points]</p>	<p>Create a revision video suitable for Key Stage 3 students on a topic of your choice. This can be passed on to your teacher if you're feeling brave.</p> <p>[4 Super Curriculum House Points]</p>	<p>Look up careers that use maths on Unifrog and find what levels of maths you may need to use in the workplace.</p> <p>[2 Super Curriculum House Points]</p>
<p>Start to look at algebraic proofs, video 365 and 366 at Corbett Maths:</p> <p>https://corbettmaths.com/contents/</p> <p>[2 Super Curriculum House Points]</p>	<p>Try some simple proofs of your own:</p> <p>https://www.quora.com/What-are-some-simple-maths-proofs-for-kids</p> <p>[2 Super Curriculum House Points]</p>	<p>Attend after school maths sessions on Monday, Tuesday, Thursday or Friday after school. Here you can be given challenging questions that push you and your Maths knowledge.</p> <p>[2 Super Curriculum House Points]</p>

Modern Foreign Languages

French

Know it	Use it	Stretch it
<p>Watch one of the following French films:</p> <p><i>Intouchables</i> <i>Etre et avoir</i> <i>Les choristes</i> <i>Jean de Florette</i> <i>La famille Bélier</i></p> <p>[3 Super Curriculum House Points]</p>	<p>Make a video or help sheet to teach someone a grammar point that you have learnt in class. Share this with your teacher.</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend or help with an MFL club.</p> <p>[5 Super Curriculum House Points]</p>
<p>Listen to the free access Podcasts at <i>Coffeebreak French</i>:</p> <p>https://radiolingua.com/coffeebreakfrench/</p> <p>[3 Super Curriculum House Points]</p>	<p>Research how, when and why France became a republic. Create a timeline to help you remember.</p> <p>[4 Super Curriculum House Points]</p>	<p>Go onto Médecins sans Frontières website and listen to the presentations about their work all round the world</p> <p>http://www.msf.fr/msf</p> <p>[4 Super Curriculum House Points]</p>
<p>Go online and read Le Point or Le Monde; note down 20 new items of vocab</p> <p>www.lemonde.fr www.lepoint.fr</p> <p>[3 Super Curriculum House Points]</p>	<p>Read some authentic French Haikus, then try and write one yourself</p> <p>http://www.modernhaiku.org/essays/frenchhaiku.html</p> <p>[5 Super Curriculum House Points]</p>	<p>Research the possibility of working in France</p> <p>https://www.woof.fr/ https://www.gooverseas.com/gap-year/au-pair/france https://www.workaway.info/</p> <p>[5 Super Curriculum House Points]</p>

German

Know it	Use it	Stretch it
<p>Browse articles at: http://www.leselupe.de Note down 20 new items of vocabulary</p> <p>[4 Super Curriculum House Points]</p>	<p>Access searchable MP3 clips in German: http://www.audio-lingua.eu/?lang=en</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend or help with an MFL club.</p> <p>[5 Super Curriculum House Points]</p>
<p>On YouTube search: 'Friends Ross and Rachel deutsch' and watch the best bits of Ross and Rachel in German</p> <p>[3 Super Curriculum House Points]</p>	<p>Research the building of the Berlin Wall in 1961 and events leading up to 1989 when it came down.</p> <p>[5 Super Curriculum House Points]</p>	<p>Watch the film: <i>Goodbye Lenin</i> A comedy set around the time the Berlin Wall came down, or</p> <p><i>Das Leben der Anderen</i> Set in Communist East Germany.</p> <p>[3 Super Curriculum House Points]</p>
<p>Listen to the News in Germany. You can read and listen to stories in English too:</p> <p>www.dw-world.de</p> <p>[3 Super Curriculum House Points]</p>	<p>Make a video or help sheet to teach someone a grammar point that you have learnt in class. Share this with your teacher.</p> <p>[4 Super Curriculum House Points]</p>	<p>Complete intermediate texts, with self-marking comprehension activities:</p> <p>https://german.tolearnfree.com/</p> <p>[4 Super Curriculum House Points]</p>

Spanish

Know it	Use it	Stretch it
<p>Try some of the Instituto de Cervantes resources:</p> <p>http://londres.cervantes.es/website/mapa_site_web_en.shtm</p> <p>[3 Super Curriculum House Points]</p>	<p>Watch the film <i>Mujeres al borde de un ataque de nervios</i> – Pedro Almodovar’s comedy including an early appearance by Antonio Banderas or <i>Todo sobre mi madre</i> A drama/comedy from the famous Spanish director Pedro Almodovar.</p> <p>[5 Super Curriculum House Points]</p>	<p>Attend a MFL Subject club.</p> <p>[5 Super Curriculum House Points]</p>
<p>Listen to the free content at this really good podcast site:</p> <p>https://www.newsinslowspanish.com/</p> <p>[2 Super Curriculum House Points]</p>	<p>Access the content designed to help you prepare for the GCSE Spanish exam:</p> <p>https://www.bbc.com/education/subjects/z4dqxnb</p> <p>[3 Super Curriculum House Points]</p>	<p>Beginner, intermediate and advanced grammar, with self-marking comprehension activities:</p> <p>https://studyspanish.com/grammar</p> <p>[3 Super Curriculum House Points]</p>
<p>Use an online dictionary to find some hilarious translations of simple phrases.</p> <p>https://www.spanishdict.com/guide/spanish-sayings-with-no-english-equivalents</p> <p>[3 Super Curriculum House Points]</p>	<p>Listen to a podcast on <u>El café de la mañana</u> on Spotify. Choose a topic you find interesting and write a summary of no more than 40 words in English. Show to your teacher.</p> <p>https://open.spotify.com/show/7GljPB112ZltDWPCDSG5Ze.</p> <p>[4 Super Curriculum House Points]</p>	<p>Research the civil war and subsequent dictatorship in Spain that lasted until 1975. Show your research to your teacher.</p> <p>[3 Super Curriculum House Points]</p>

Music

Know it	Use it	Stretch it
<p>Watch the documentary below:</p> <p>https://www.youtube.com/watch?v=FLRc3z9dWOU</p> <p>[2 Super Curriculum House Points]</p>	<p>Create a guide to the pentatonic scale in music – this can be a document or a video. Send your guide to Mr Hardy.</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend a music club.</p> <p>[5 Super Curriculum House Points]</p>
<p>Watch the documentary below:</p> <p>https://www.youtube.com/watch?v=ZZJpNer7EM</p> <p>[2 Super Curriculum House Points]</p>	<p>Create a guide to the elements of music. This can be a document or video. Send your guide to Mr Hardy.</p> <p>[3 Super Curriculum House Points]</p>	<p>Create a piece of music that uses changes in dynamics, tempo and texture to change the mood part way through.</p> <p>[5 Super Curriculum House Points]</p>
<p>Watch the video below:</p> <p>https://www.youtube.com/watch?v=paQEoChuDYA</p> <p>[2 Super Curriculum House Points]</p>	<p>Listen to two pieces of music that use voices only and write about the vocal textures used. Send your work to Mr Hardy.</p> <p>[3 Super Curriculum House Points]</p>	<p>Create a piece of music in a style of your choosing that uses appropriate instruments and musical features.</p> <p>[5 Super Curriculum House Points]</p>

Physical Education

Know It	Use It	Stretch It
<p>Read books on sport including:</p> <ul style="list-style-type: none"> • The Sports Gene by David Epstein 2013 • Bounce by Matthew Syed 2011 • The Talent Code by Daniel Coyle 2009 <p>[4 Super Curriculum House Points]</p>	<p>Write an article for the Nobel News, Facebook or Twitter page on a book that you have read.</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>Volunteer at a key stage 3 club of your choice.</p> <p>[3 Super Curriculum House Points]</p>	<p>Create a timeline of the development of tennis over the years.</p> <p>[3 Super Curriculum House Points]</p>	<p>Represent the school in any sport including House Sports. Challenge yourself to represent the County.</p> <p>[3 Super Curriculum House Points]</p>
<p>Create a scrapbook of any sports person or sporting event from broadsheet newspapers.</p> <p>[3 Super Curriculum House Points]</p>	<p>Write a coaching plan for any sport.</p> <p>[4 Super Curriculum House Points]</p>	<p>Lead an activity during Sport Relief week/Children in Need or Comic relief.</p> <p>[4 Super Curriculum House Points]</p>

Philosophy & Religion Education

Know It	Use It	Stretch It
<p>Women and the Church: Read Chapter 13 of Bible Matters by Peter and Charlotte Vardy.</p> <p>[3 Super Curriculum House Points]</p>	<p>Christianity: Read Chapter 2: From the Beginning of the Universe of The Puzzle of Christianity by Peter and Charlotte Vardy.</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend the philosophy film club or Mindfulness club at lunchtimes for 4 weeks.</p> <p>[4 Super Curriculum House Points]</p>
<p>Euthanasia: Watch the Ted Talk, Beyond Life: Managing Your Right to Die by Dr. Allan Saxe</p> <p>https://www.youtube.com/watch?v=B7ehf6CmG4Y</p> <p>[2 Super Curriculum House Points]</p>	<p>Christianity: Watch 'A.J. Jacobs: My year of living biblically'</p> <p>https://www.youtube.com/watch?v=B5MkpzMAOZM</p> <p>Present the key ideas in a storyboard or mind-map</p> <p>[2 Super Curriculum House Points]</p>	<p>Islam: Watch the TedTalk on Islamophobia, What do you think when you look at me? Dalia Mogahed</p> <p>https://www.youtube.com/watch?v=wzkFoetp-M</p> <p>[2 Super Curriculum House Points]</p>
<p>Creation: Online research on Genesis - Read and make your own notes on the different views.</p> <p>http://www.neverofftopic.com/primary/why-the-universe-exists/</p> <p>[2 Super Curriculum House Points]</p>	<p>Christianity: Online research – Look at the information on Why didn't Christianity die out in the 1st Century?</p> <p>http://www.bbc.co.uk/guides/zttpn39</p> <p>[2 Super Curriculum House Points]</p>	<p>Islam: Online research – Look at the information on the Angels. Make your own notes on this.</p> <p>https://www.bbc.co.uk/bitesize/guides/zdxdqhv/revision/4</p> <p>[2 Super Curriculum House Points]</p>
<p>War and conflict: Listen to the following Ted Talk What I saw in the war by Janine di Giovanni:</p> <p>https://www.youtube.com/watch?v=k2hQL9Zrokk</p> <p>[2 Super Curriculum House Points]</p>	<p>Christianity: Listen to the podcast on 'The God Particle' – consider Is the "God particle" truly "a blow to the Christian faith,"?</p> <p>https://player.fm/series/science-scripture-salvation/does-the-god-particle-prove-the-big-bang</p> <p>[2 Super Curriculum House Points]</p>	<p>Islam: Listen to the following podcast on the History of Islam</p> <p>https://player.fm/series/becoming-a-better-muslim-islamic-self-improvement-quran-sunnah</p> <p>[2 Super Curriculum House Points]</p>

<p>GCSE: Book yourself onto one of Peter Vardy's Candle Conferences https://candleconferences.com/events/evil-and-suffering-on-demand/</p> <p>[2 Super Curriculum House Points]</p>	<p>Christianity: Plan a visit to the St Josephs Roman Catholic Church: Bedwell Cres, Stevenage SG1 1NJ</p> <p>[2 Super Curriculum House Points]</p>	<p>Islam: Plan a visit to the Stevenage Muslim Community Centre: Vardon Rd, Stevenage SG1 5PJ (tel: 01438 350865)</p> <p>[2 Super Curriculum House Points]</p>
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Psychology

Know It	Use It	Stretch It
<p>Research the different parts of the brain and identify the functions of the prefrontal cortex and the limbic system.</p> <p>[3 Super Curriculum House Points]</p>	<p>Draw and label a picture of the brain identifying the different parts with the functions they are responsible for.</p> <p>[3 Super Curriculum House Points]</p>	<p>Attend Psychology super-curricular club at lunchtime for a half term.</p> <p>[5 Super Curriculum House Points]</p>
<p>Find and read the following BBC report about a mass shooting in America and see if you can find 2 different causes of why the criminal committed the actions identified in the report.</p> <p>https://www.bbc.co.uk/news/world-us-canada-46135459</p> <p>[3 Super Curriculum House Points]</p>	<p>Read this book: ‘We Need to Talk About Kevin’ by Lionel Shriver</p> <p>This book raises whether criminal behaviour (a mass shooting by a student in America) is due to Nature or Nurture. Then, identify whether behaviour is a result of nature or nurture.</p> <p>[4 Super Curriculum House Points]</p>	<p>Research the crimes committed by Ted Bundy and write a 1000-word essay describing the effects of media on court cases and criminal sentences.</p> <p>[5 Super Curriculum House Points]</p>
<p>Identify at least 2 biological and two social causes of schizophrenia and clinical depression. Then, discuss how these factors may affect the development of mental health in teens.</p> <p>[3 Super Curriculum House Points]</p>	<p>Distinguish between the use of biological treatments and psychological treatments of mental health problems. Then, identify which type of treatment you find to be the most beneficial and explain why.</p> <p>[4 Super Curriculum House Points]</p>	<p>Carry out Piaget’s study into the conservation of number by identifying a specific stage that you are interested in studying and replicate the study. Identify the aims, procedure and results of your study.</p> <p>[5 Super Curriculum House Points]</p>

Science

Biology

Know it	Use it	Stretch it
<p>Play the game – what is your fastest time? Take a screen shot and show it to your teacher.</p> <p>https://www.purposegames.com/game/the-heart-quiz</p> <p>[3 Super Curriculum House Points]</p>	<p>Watch the video: https://www.bbc.co.uk/programmes/p04t0k4k</p> <p>Explain why the heart should be inside the body.</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend a science club at lunchtime 3 weeks in a row</p> <p>[5 Super Curriculum House Points]</p>
<p>Produce a story board for a Biology required practical that you have studied in GCSE, making sure to include the different steps that are involved.</p> <p>[3 Super Curriculum House Points]</p>	<p>Make a model of a cell using household objects/food. Take a picture and label the different components.</p> <p>[4 Super Curriculum House Points]</p>	<p>Create your own Kahoot quiz based on cell biology</p> <p>[5 Super Curriculum House Points]</p>
<p>Watch the video and create a poster showing the importance of plants:</p> <p>https://www.youtube.com/watch?v=9UvlqAVCoqY&list=PL3EED4C1D684D3ADF&index=6</p> <p>[3 Super Curriculum House Points]</p>	<p>Grow your own sunflower and produce a diary of the process. You should include growth measurements and how much water you give the plant. You may wish to consider how you can increase the growth rate.</p> <p>[4 Super Curriculum House Points]</p>	<p>Produce a mind map for all of the Biology content you have learned in year 10. Once the content is on there, use a bright colour pen to show how the different topics are linked. (You can use the London underground map as an example for your layout).</p> <p>[5 Super Curriculum House Points]</p>

Chemistry

Know it	Use it	Stretch it
<p>Produce a mnemonic to help you remember the order of the first 20 elements in the periodic table.</p> <p>[3 Super Curriculum House Points]</p>	<p>Produce a revision resource on the different types of bonding (covalent, ionic, metallic). You should include information on their properties.</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend a science club at lunchtime 3 weeks in a row</p> <p>[5 Super Curriculum House Points]</p>
<p>Produce a story board for a Chemistry required practical that you have studied in GCSE, making sure to include the different steps that are involved.</p> <p>[3 Super Curriculum House Points]</p>	<p>Using household objects/food, make models to show the structure of an atom, a molecule, an element, a compound, and a mixture. Take a photo of them, and state why they show this.</p> <p>[4 Super Curriculum House Points]</p>	<p>Imagine you work for a mining company. Research how electrolysis can be used to extract metals from their ore, and produce a leaflet to explain how this process works.</p> <p>[5 Super Curriculum House Points]</p>
<p>Produce a timeline to show how our knowledge of the atom has changed over time. You should include diagrams, a picture of the scientist, and the scientific knowledge/research that allowed them to make this discovery.</p> <p>[3 Super Curriculum House Points]</p>	<p>Imagine it is 1869, and Dmitri Mendeleev has just created the periodic table. Write a newspaper article, detailing his work and how this creation will be beneficial in the future.</p> <p>[4 Super Curriculum House Points]</p>	<p>Produce a mind map for all the Chemistry content you have learned in year 10. Once the content is on there, use a bright colour pen to show how the different topics are linked. (You can use the London underground map as an example for your layout).</p> <p>[5 Super Curriculum House Points]</p>

Physics

Curriculum area	Know it	Use it	Stretch it
Electricity	<p>Make revision flash cards for all the circuit symbols you've learned in this unit. Research on the web and make a separate pack of other circuit symbols we haven't covered at GCSE.</p> <p>[3 Super Curriculum House Points]</p>	<p>Dr Mienczakowski wants a cup of tea as quick as possible. An electric kettle has a power of 3kW based upon a supply voltage of 230V a.c.</p> <p>(i) Calculate the time taken to heat 1.7 litres of water from 20°C to 100°C.</p> <p>(ii) Describe modifications which could be made to the kettle in order to decrease the time taken to boil the water.</p> <p>[4 Super Curriculum House Points]</p>	<p>Attend a science club at least 3 times in a row [5 Super Curriculum House Points]</p>
Radioactivity	<p>Conduct web research into the uses of radioactivity.</p> <p>Aim to make a PowerPoint which summarises what the application is, why the particular type of radiation is good for that application and what the hazards are.</p> <p>[3 Super Curriculum House Points]</p>	<p>A gamma ray radioactive source has been lost in a room which is 2.5m x 2.5m. Assuming that you are not concerned about the risk of exposure to radiation,</p> <p>(i) Describe how you could use a Geiger counter in order to locate the source of the radiation whilst minimising your exposure to radiation</p> <p>(ii) Explain what the risks of your method would be.</p> <p>[4 Super Curriculum House Points]</p>	<p>The inverse square law states that the intensity of electromagnetic radiation is inversely proportional to the distance to the source squared: Assuming a lost source is an emitter of Gamma radiation and you know which direction it is in</p> <p>Describe how you could use the inverse square law to work out how far away the source is (you may move away from the source but not towards it!).</p> <p>[5 Super Curriculum House Points]</p>

<p>Mixed Topics</p>	<p>Research further states of matter (see if you can find other ones other than solid, liquid and gas).</p> <p>Make a poster summarising what you have found out.</p> <p>[3 Super Curriculum House Points]</p>	<p>Dr Mienczakowski would like to go to space. To escape the pull of Earth's gravity he will need to travel at 11.2km/s. He has decided to use springs in order to launch himself and he wishes to place an order for car suspension springs which have a spring constant of 50kN/m and can be compressed by 0.1m. Assume he has the same mass as an average man in the UK (83.6kg).</p> <p>(i) Calculate how many springs he needs to order to send himself into space (ii) State the practical problems associated with this idea</p> <p>[4 Super Curriculum House Points]</p>	<p>Watch this Youtube video on reinforced materials - Sand Castle Holds Up A Car! - Mechanically Stabilized Earth - YouTube</p> <p>Perform further web research and make a single PowerPoint slide which summarises the advantages of composite / reinforced materials.</p> <p>[5 Super Curriculum House Points]</p>
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Sociology

Know It	Use It	Stretch It
<p>FERAL CHILDREN Research other feral children (beyond those covered in class). Write an account which describes how they were brought up, how they were found, what they could do and what happened to them.</p> <p>[3 Super Curriculum House Points]</p>	<p>GENDER ROLE SOCIALISATION Visit a toy shop and make a list of all the toys/games/activities which are marketed towards boys and those which are marketed towards girls. Explain how this relates to Ann Oakley's idea of canalisation and gender role socialisation.</p> <p>[3 Super Curriculum House Points]</p>	<p>ENRICHMENT Attend social sciences research club for a half term.</p> <p>[5 Super Curriculum House Points]</p>
<p>FAMILIES Find out about the Nayar tribe in India. Would Murdock have considered their arrangements as a family? Do you? Explain your answer.</p> <p>[3 Super Curriculum House Points]</p>	<p>SOCIOLOGICAL VIEWS ON DIVORCE Use your knowledge of the different views on divorce to write a script for a debate between different sociologists: feminists, postmodernists and the New Right.</p> <p>[3 Super Curriculum House Points]</p>	<p>GENDER INEQUALITY Research the gender pay gap. Write a critical evaluation of the following statement: "women have achieved gender equality in the workplace."</p> <p>[5 Super Curriculum House Points]</p>
<p>RESEARCH EVALUATION Find out about <i>Tally's Corner</i>, a observational study of life on street corners by Eliot Liebow. Identify the problems they experienced in their research and how they dealt with each.</p> <p>[3 Super Curriculum House Points]</p>	<p>SOCIOLOGICAL THEORIES Compare the views of the following three perspectives: functionalists, Marxists and feminists. Which do you think offers the most accurate account of the nature of society? Support with evidence from your studies.</p> <p>[4 Super Curriculum House Points]</p>	<p>EDUCATIONAL POLICY The government provides extra money for children who are eligible for free school meals. In 2016/17 this was over £900 per pupil. Using your sociological knowledge, write a plan advising head teachers on the most effective way to spend this money.</p> <p>[5 Super Curriculum House Points]</p>