



Nobel

Year 9
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 learner.

Whether you are applying your artistic skills to develop a sketchbook, developing code breaking skills in Maths, or creating a tasty meal for your family using seasonal foods, we hope that these activities inspire you to think about your learning in new ways. You might even be able to teach the staff a thing or two!

A key characteristic of a successful student is independence. If you can tackle these activities, you will be demonstrating your ability to think for yourself and to take responsibility for your learning. Developing this will help to make sure that you are prepared for the GCSE courses and beyond.

Equally, we think that it is important to reflect on your learning by talking about it. Try to involve your family when you complete some of these tasks like visits to museums and watching live theatre.

We hope that you have fun attempting these challenges and find that they give you a fresh perspective on the subjects that you learn.

If you complete any challenges for a subject, please let your teacher know so that you can be rewarded. There will be prizes for students who finish all of the activities for a particular subject.

Good luck!

Peter Dean
Lead Practitioner in English

Naomi Rose
Deputy Headteacher

Contents

Art.....	3
Computing	4
Design Technology	5
Drama.....	6
English.....	7
Food Technology	8
Geography	9
History	10
Maths.....	11
Modern Foreign Languages	12
French.....	12
German	12
Spanish	13
Physical Education.....	14
Philosophy & Religion Education	15
Science.....	16

Art

Know It	Use It	Stretch It
<p>Practise using the formal elements of Art. Get involved with 'The Big Draw'</p> <p>https://thebigdraw.org/30-day-drawing-challenge</p> <p>[3 Aspiration Points]</p>	<p>Record your drawing challenge in a small sketchbook and try to make a drawing/sketch/g/collage every day for a month. This could be a quick 5-minute study to a one hour. Show your art teacher your artwork.</p> <p>[5 Aspiration Points]</p>	<p>Present your challenge as an annotated journal and share it through the Nobel News or the schools Facebook or Twitter pages with the</p> <p>#thebigdraw #drawingchangeslives</p> <p>[5 Courage Points]</p>
<p>Make a collection of examples of artwork and images that you find inspiring and record them in the back of your sketchbook.</p> <p>Refer to them in your work.</p> <p>[2 Aspiration Points]</p>	<p>Make your own sketchbook using many different kinds of paper.</p> <p>There are lots of tutorials online that show different ways of doing this, but the one below works well:</p> <p>https://www.craftsy.com/p/apercrafts/article/how-to-make-a-diysketchbook/</p> <p>[3 Aspiration Points]</p>	<p>Visit the Natural History Museum at Tring and have a look at the collection of animals and insects in cases.</p> <p>Take a small sketchbook and make sketches as you go around.</p> <p>http://www.nhm.ac.uk/visit/tring.html</p> <p>[5 Aspiration Points]</p>
<p>Visit the Google Cultural Institute Art Project website. This is an ongoing project where you will be able to see every piece of art work in the world:</p> <p>https://www.google.com/culturalinstitute/beta/partner?hl=en</p> <p>[2 Aspiration Points]</p>	<p>Visit the Tate Britain to give you an insight into the history of British art.</p> <p>Watch extracts from the series:</p> <p>https://www.tate.org.uk/contextcomment/video/meet-500-yearsbritish-art#open285623</p> <p>[5 Aspiration Points]</p>	<p>Join Art Club and offer to lead a session. Encourage your peers to come along and try a new technique.</p> <p>[5 Aspiration Points]</p>

Computing

Know It	Use It	Stretch It
<p>Bletchley Park</p> <p>Visit Bletchley Park and explore the world of coding and maths.</p> <p>https://www.bletchleypark.org.uk/visit-us</p> <p>[2 Aspiration Points]</p>	<p>Try attempting your own code breaking challenge at:</p> <p>https://schoolcodebreaking.com/</p> <p>[3 Aspiration Points]</p>	<p>Attend the level 9 club at Nobel on a Monday after school or computing club in SF01.</p> <p>Here you will be given challenging questions that push you and your maths/computing knowledge.</p> <p>Watch the film:</p> <p>https://www.imdb.com/title/tt2084970/</p> <p>[2 Aspiration Points]</p>
<p>Do some research into computers from 30 years ago. Ask your family what computers they had when they were at school. Do you feel you would struggle nowadays without the computers you have?</p> <p>[2 Empathy 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 Aspiration Points]</p>	<p>Raspberry Pi – <i>Why not get yourself a credit card sized computer?</i> There are so many projects you can complete with this tiny computer. Take a look here for inspiration:</p> <p>https://raspberrypi.org/magpi-issues/Projects_Book_v1.pdf</p> <p>You may get the opportunity to use these in computing club in SF01.</p> <p>[2 Aspiration Points]</p>
<p>Read the book:</p> <p>Computational Fairy Tales by Jeremy Kubica</p> <p>A romp through the principles of computational thinking, illustrating high-level computer science concepts, the motivation behind them, and their application.</p> <p>[3 Aspiration Points]</p>	<p>A computer programme has been designed to play the perfect game of Countdown. Research the name of the computer programme and challenge yourself to beat it.</p> <p>[2 Aspiration Points]</p>	<p>Read the book:</p> <p>Algorithms to Live By: The Computer Science of Human Decisions</p> <p>A fascinating exploration of how computer algorithms can be applied to our everyday lives.</p> <p>[3 Aspiration Points]</p>

Design Technology

Know It	Use It	Stretch It
<p>Visit a sporting venue, find out about how and when it was made. E.g. Wembley, Emirates</p> <p>[3 Aspiration Points]</p>	<p>Visit the Natural History museum. http://www.nhm.ac.uk/</p> <p>[3 Aspiration Points]</p>	<p>Visit the Design museum, write an essay on an exhibit that you find interesting. https://designmuseum.org/</p> <p>[3 Aspiration Points]</p>
<p>Watch a video about Design and Technology on tv.data.org.uk</p> <p>http://tv.data.org.uk/</p> <p>[2 Aspiration Points]</p>	<p>Visit the Science museum; find an interactive exhibition that uses new technology. https://www.sciencemuseum.org.uk/</p> <p>[3 Aspiration Points]</p>	<p>Design a display for the sailing lake/club at Fairlands Park.</p> <p>[3 Aspiration Points]</p>
<p>Find out about the new town act of 1946. How and why was Stevenage created?</p> <p>[2 Aspiration Points]</p>	<p>Choose a fusion 360 tutorial by Lars Christiansen and have a go at it.</p> <p>[2 Aspiration Points]</p>	<p>Find out about how 3D printing has impacted on human prosthetics.</p> <p>[2 Aspiration Points]</p>

Drama

Scheme of Work	Know It	Use It	Stretch it
Practitioners – Stan and Brecht	Watch a professional drama performance and try to identify the key features of either Stanislavski or Brecht. [3 Aspiration Points]	Read a play written by Brecht and make a note of all the key features of verfremdungseffekt that he used. [3 Aspiration Points]	Write an essay that compares and contrasts Stanislavski and Brecht's approach to theatre and conclude which you prefer and why. [4 Aspiration Points]
Too Much Punch For Judy	Read at least 3 plays from the library (since September) [3 Aspiration Points]	Find a monologue from a play. Learn it by heart and perform it in class [3 Courage Points]	Give a presentation about your favourite play to your class [3 Courage Points]
Bits of Bard	Watch one a Shakespeare play online/DVD and summarise the plot in a storyboard [2 Aspiration Points]	Act out a key scene from a Shakespeare text that we have not studied (with friends, if you like) [3 Courage Points]	Learn a Shakespeare sonnet by heart (it should be 14 lines or more) and perform it in class [3 Courage Points]
Character and Role	Watch one of Alan Bennett 'Talking Head' monologues on you tube or DVD [2 Aspiration Points]	Write a creative monologue for an actor to perform and direct a friend in a performance of your work. [3 Courage Points]	Set up a creative writing group for your year group and publish your work in school [5 Courage Points]
White Feather	Read the novel 'War Horse' and watch then watch the film of the same name and write a review comparing and contrasting the two [2 Aspiration Points]	Create a display that could be placed in reception for November Remembrance day. It should be eye catching and effective enough to raise awareness of the sacrifice made by the soldiers. [2 Empathy Points]	Organise a fund raising event to raise money that can be donated to the Poppy Appeal. [5 Empathy Points]
Persecution	Watch the film a 'The Pianist' on DVD and write a review of the film. [2 Aspiration Points]	Research Anne Frank and prepare a presentation for your class on her life under the German Occupation [2 Empathy Points]	Prepare an assembly on the holocaust ready for holocaust memorial week. [5 Empathy Points]

English

Know It	Use It	Stretch It
<p>Go to www.lonelyplanet.com and read about places that you have been to and places that you want to visit.</p> <p>[2 Aspiration Points]</p>	<p>Write a piece of travel writing about a place - foreign or in the United Kingdom - that you have visited (this can be imagined if you like).</p> <p>[3 Aspiration Points]</p>	<p>Read <i>Travels with Charley</i> by John Steinbeck and/ or <i>Down Under</i> by Bill Bryson</p> <p>[3 Aspiration Points]</p>
<p>Read a newspaper article every week (for 4 weeks) and keep a track of what you read, where it comes from and the article's main message.</p> <p>[4 Aspiration Points]</p>	<p>Pick a topic that you are particularly interested in that is being discussed in the news and read about it 4 different newspapers. Compare the way that this topic is being addressed in the various newspapers.</p> <p>[3 Aspiration Points]</p>	<p>Write a newspaper article on a topic that you are interested in. Consider the way that you craft language to communicate your opinion.</p> <p>[3 Aspiration Points]</p>
<p>Watch the film version of <i>West Side Story</i> and consider whether attitudes to love and marriage are presented similarly to those in <i>Romeo and Juliet</i>.</p> <p>[2 Aspiration Points]</p>	<p>Research marriage customs around the world and compare them to marriage customs in Elizabethan England.</p> <p>[2 Empathy Points]</p>	<p>Read <i>Pride and Prejudice</i> by Jane Austen and create a presentation on the theme of love and relationships.</p> <p>[4 Aspiration Points]</p>

Food Technology

Know It	Use It	Stretch It
<p>Research current food trends by using Good Food magazines or the internet.</p> <p>[2 Aspiration Points]</p>	<p>Visit Borough Market and Harrods to see the latest trends.</p> <p>[2 Aspiration Points]</p>	<p>Create a product using the latest trends.</p> <p>[2 Aspiration Points]</p>
<p>Practise KS3 and KS4 practical skills e.g. enriched pastry or dough, separating egg whites for meringue making.</p> <p>[2 Aspiration Points]</p>	<p>Make a dish incorporating KS3 and KS4 skills.</p> <p>[2 Aspiration Points]</p>	<p>Create a product incorporating KS3 skills, KS4 skills and a latest food trend.</p> <p>[2 Aspiration Points]</p>
<p>Create a product incorporating KS3 skills, KS4 skills and a latest food trend.</p> <p>[2 Aspiration Points]</p>	<p>Make notes on the articles.</p> <p>[2 Aspiration Points]</p>	<p>See your Food Tech teacher and explain what you have learnt.</p> <p>[2 Aspiration Points]</p>

Geography

Know It	Use It	Stretch It
<p>Take out a book on Biomes from the Library and make brief notes</p> <p>[2 Aspiration Points]</p>	<p>Produce a homework quiz on a topic you have learnt about in Geography</p> <p>[2 Aspiration Points]</p>	<p>Conduct a study into a local River. Measure how it changes downstream.</p> <p>[3 Aspiration Points]</p>
<p>Read Geography Review (magazine) from the Library/Hu01</p> <p>[2 Aspiration Points]</p>	<p>Find a relevant article to what you're learning and produce a presentation for your class</p> <p>[3 Courage Points]</p>	<p>Create a case study (fact file) on a recent natural disaster.</p> <p>[2 Aspiration Points]</p>
<p>Learn the names of all the countries in the world</p> <p>[4 Aspiration Points]</p>	<p>Learn the names and locations of the countries in the world</p> <p>[4 Aspiration Points]</p>	<p>Create a quiz to test another student's knowledge of the countries in the world</p> <p>[2 Aspiration Points]</p>

History

Know It	Use It	Stretch It
<p>Visit the Imperial War Museum and make a scrapbook of the information you learn there about life for soldiers and civilians during WW1/WW2.</p> <p>[3 Aspiration Points]</p>	<p>Design a propaganda poster promoting life on the Home Front to be used by the British government during WW2.</p> <p>[2 Aspiration Points]</p>	<p>Write an essay in response to the following:</p> <p>“War always does more harm than good” Do you agree?</p> <p>[4 Aspiration Points]</p>
<p>Read “When Hitler stole pink rabbit” by Judith Kerr.</p> <p>(copy available in the History department)</p> <p>[2 Aspiration Points]</p>	<p>Write a poem based on life in the trenches during WW1. (You could use poems we have read such as ‘Dulce et Decorum Est’ by Wilfred Owen for inspiration).</p> <p>[2 Aspiration Points]</p>	<p>Create a deliver class presentation on the importance of commemorating Holocaust Memorial Day.</p> <p>[3 Courage Points]</p>
<p>Watch the film “Warhorse” (2011)</p> <p>[2 Aspiration Points]</p>	<p>Create a revision factsheet on a key historical topic we have studied e.g. The Wall Street Crash</p> <p>[2 Aspiration Points]</p>	<p>Research the lives and stories of local soldiers in WW1 at:</p> <p>https://www.everyonerembered.org/</p> <p>See if you can find any of your ancestors on there.</p> <p>[2 Aspiration Points]</p>

Maths

Know It	Use It	Stretch It
<p>Bletchley Park</p> <p>Visit Bletchley Park and explore the world of coding and maths</p> <p>https://www.bletchleypark.org.uk/visit-us</p> <p>[3 Aspiration Points]</p>	<p>Try attempting your own code breaking challenge at:</p> <p>https://schoolcodebreakin.g.com/</p> <p>[2 Aspiration Points]</p>	<p>Attend the level 9 club at Nobel on a Monday after school or computing club in SF01.</p> <p>Here you will be given challenging questions that push you and your maths/computing knowledge.</p> <p>Watch the film:</p> <p>https://www.imdb.com/title/tt2084970/</p> <p>[2 Aspiration Points]</p>
<p>Look up the world record for the largest number of decimal places someone has remembered Pi to. What type of number is Pi?</p> <p>[2 Aspiration Points]</p>	<p>How many decimal places can you remember pi to? When and where do we use Pi?</p> <p>[2 Aspiration Points]</p>	<p>Develop your understanding of irrational numbers and prove that root 2 is irrational</p> <p>https://www.khanacademy.org/math/algebra/rational-and-irrational-numbers/proofs-concerning-irrational-numbers/v/proof-that-square-root-of-2-is-irrational</p> <p>[2 Aspiration Points]</p>
<p>Use the PIXL maths app (ask your teacher for your login if you do not have it) and try some of the questions to see where your strengths and weaknesses are in mathematics.</p> <p>[2 Aspiration Points]</p>	<p>Start to create your own videos like the ones in Corbett Maths so when you get to your GCSE you can use these to remind yourself of topics you have already covered.</p> <p>[4 Aspiration Points]</p>	<p>Research Archimedes and contributions to the world of Mathematics.</p> <p>[2 Aspiration Points]</p>

Modern Foreign Languages

French

Know it	Use it	Stretch it
<p>Change the settings on your netflix account (More, Account, My Profile, Language) to include French and watch some of your favourite shows in French.</p> <p>[3 Aspiration Points]</p>	<p>Research a famous French singer or band and make a PowerPoint presentation for the class.</p> <p>[3 Aspiration Points]</p>	<p>Write a diary about a real or imagined trip to a French-speaking country and include pictures.</p> <p>[3 Aspiration Points]</p>
<p>Online stories with audio to listen as well: http://www.childtopia.com/index.php?module=videos&func=cuentos&wlang=fra</p> <p>[3 Aspiration Points]</p>	<p>Plan a long weekend in Paris. What would you visit and why?</p> <p>[3 Aspiration Points]</p>	<p>Searchable MP3 clips by topic, level and language: http://www.audio-lingua.eu/?lang=en</p> <p>[3 Aspiration Points]</p>
<p>Read a news article from: http://www.1jour1actu.com/ Pick out some new vocabulary and see if you can identify any grammar points you have learnt about in class.</p> <p>[3 Aspiration Points]</p>	<p>Register at www.memrise.com and access the German vocabulary list 'AQA 2016 onwards GCSE French vocabulary'</p> <p>[3 Aspiration Points]</p>	<p>Research the geography and the political makeup of France. What are the departments? What are the different political parties?</p> <p>[3 Aspiration Points]</p>

German

Know it	Use it	Stretch it
<p>Read the German magazines from the library</p> <p>[3 Aspiration Points]</p>	<p>Research a famous German singer or band and make a PowerPoint presentation for the class. Try, die Toten Hosen, Tokio Hotel, Leserkraft 3D, Wir sind Helden etc</p> <p>[3 Aspiration Points]</p>	<p>Write a diary about a real or imagined trip to a German-speaking country and include pictures</p> <p>[3 Aspiration Points]</p>
<p>Watch German TV news items selected for younger viewers: http://www tivi.de/fernsehen/logo/sta rt/index.html</p> <p>[3 Aspiration Points]</p>	<p>Plan a long weekend in Berlin. What would you visit and why?</p> <p>[3 Aspiration Points]</p>	<p>Change the settings on your netflix account (More, Account, My Profile, Language) to include German and watch some of your favourite shows in German.</p> <p>[3 Aspiration Points]</p>
<p>12 reading texts with accompanying audio: http://german.about.com/library/bllesen_inhalt.htm</p> <p>[3 Aspiration Points]</p>	<p>Register at www.memrise.com and access the German vocabulary list 'AQA 2016 onwards GCSE German vocabulary'</p> <p>[3 Aspiration Points]</p>	<p>Research the geography and the political makeup of Germany. What are the states that make up Federal Republic of Germany? What are the different political parties?</p> <p>[3 Aspiration Points]</p>

Spanish

Know it	Use it	Stretch it
<p>Change the settings on your netflix account (More, Account, My Profile, Language) to include French and watch some of your favourite shows in Spanish.</p> <p>[3 Aspiration Points]</p>	<p>Research a famous Spanish/ Latin American singer or band and make a PowerPoint presentation for the class. Try, Shakira, Enrique Iglesias, Alejandro Sanz, Gloria Estefan</p> <p>[3 Aspiration Points]</p>	<p>Write a diary about a real or imagined trip to a Spanish-speaking country and include pictures</p> <p>[3 Aspiration Points]</p>
<p>Read some online stories with audio to listen as well: http://www.childtopia.com/index.php?module=videos&func=cuentos&newlang=fra</p> <p>[3 Aspiration Points]</p>	<p>Plan a long weekend in Madrid or Barcelona. What would you visit and why?</p> <p>[3 Aspiration Points]</p>	<p>Searchable MP3 clips by topic, level and language: http://www.audio-lingua.eu/?lang=en</p> <p>[3 Aspiration Points]</p>
<p>Read an article from: https://elpais.com/ Pick out some new vocabulary and see if you can identify any grammar points you have learnt about in class.</p> <p>[3 Aspiration Points]</p>	<p>Register at www.memrise.com and access the Spanish vocabulary list 'AQA 2016 onwards GCSE Spanish vocabulary'</p> <p>[3 Aspiration Points]</p>	<p>Research the geography and the political makeup of Spain. What are the provinces? What are the different political parties?</p> <p>[3 Aspiration Points]</p>

Physical Education

Know It	Use It	Stretch It
<p>Read a sports autobiography of your choice.</p> <p>[3 Aspiration Points]</p>	<p>Write a review of the autobiography highlighting areas that interested you the most.</p> <p>[3 Aspiration Points]</p>	<p>Create a poster or flyer talking about an issue in sport.</p> <p>[2 Aspiration Points]</p>
<p>Watch any sporting documentary.</p> <p>[2 Aspiration Points]</p>	<p>Create a scrapbook of any sportsperson or sporting event.</p> <p>[3 Aspiration Points]</p>	<p>Lead a group of students in a sporting competition.</p> <p>[4 Courage Points]</p>
<p>Visit a local sports club facility.</p> <p>[2 Aspiration Points]</p>	<p>Develop your fitness through trying out a new sport or doing a Park Run.</p> <p>[3 Aspiration Points]</p>	<p>Write a journal of sports you have participated in over the past two weeks.</p> <p>[3 Aspiration 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 Aspiration 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 Aspiration Points]</p>	<p>Islam: Read the BBC Bitesize page on Good and Evil</p> <p>http://www.bbc.co.uk/schools/gcsebitesize/rs/god/isgoodandevilrev2.shtml</p> <p>[2 Aspiration 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 Empathy 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 Empathy 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 Empathy Points]</p>
<p>Creation: Online research on Genesis - Read and make your own notes on the different views.</p> <p>http://www.faradayschools.com/re-topics/re-year-10-</p> <p>[2 Aspiration 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/ztpn39</p> <p>[2 Aspiration Points]</p>	<p>Islam: Online research – Look at the information on the Angels. Make your own notes on this.</p> <p>http://www.bbc.co.uk/guides/zqtnwxs</p> <p>[2 Aspiration 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 Aspiration 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 Aspiration 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 Aspiration Points]</p>
<p>GCSE: Book yourself onto one of Peter Vardy's Candle Conferences</p> <p>https://candleconferences.com/gcse-rs/</p> <p>[2 Aspiration Points]</p>	<p>Christianity: Plan a visit to the St Josephs Roman Catholic Church: Bedwell Cres, Stevenage SG1 1NJ</p> <p>[2 Aspiration Points]</p>	<p>Islam: Plan a visit to the Stevenage Muslim Community Centre: Vardon Rd, Stevenage SG1 5PJ (tel: 01438 350865)</p> <p>[2 Aspiration Points]</p>

Science

Know It	Use It	Stretch It
<p>When you are in car or on the bus identify the forces in different phases (e.g. speeding up, steady speed and slowing down) and when the forces are balanced.</p> <p>[2 Aspiration Points]</p>	<p>Open the simulation https://phet.colorado.edu/sims/html/forces-and-motion-basics/latest/forces-and-motion-basics_en.html</p> <p>Set up the tug of war with 5 different set ups of people.</p> <p>Tick all the boxes in the top right hand corner; predict if its balanced/ unbalanced and which team will win; then, press go!</p> <p>[2 Aspiration Points]</p>	<p>Find out about the breaking systems of the bloodhound car and identify which force they increase and explain how they slow the car down:</p> <p>http://www.bloodhoundssc.com/project/car/braking-systems</p> <p>[2 Aspiration Points]</p>
<p>Know your particle model diagram of a solid, liquid and a gas and when watching a team sports game. Imagine the players are particles and write down when the player are acting as a solid, liquid and a gas.</p> <p>[2 Aspiration Points]</p>	<p>In the kitchen when you or your parent/guardian is cooking consider what states of matter you can see different substances in. Make a list of any changes of state you see.</p> <p>Linking to separating mixtures, what tools can you see for separating ingredients?</p> <p>[2 Aspiration Points]</p>	<p>Place an inflated balloon in the freezer and explain what has happened in terms of energy and the particle model.</p> <p>[2 Aspiration Points]</p>
<p>Create a model of a specialised cell and write a report outlining its shape and structure</p> <p>[4 Aspiration Points]</p>	<p>Write and present a monologue taking on the role of the specialised cell and explaining its role and purpose.</p> <p>[4 Courage Points]</p>	<p>Create a short video outlining why specialised cells are important for animals.</p> <p>[4 Courage Points]</p>