

Year 11 into Year 12 Sixth Form Pre-Course Work/Activities

External Applicants should complete this work over the Summer. Internal students should join the relevant Google Classroom for each subject.



Subject	Pre-Course Work/Activities
Art	<ul style="list-style-type: none">● 'Underneath' title page (page 1)● 1. Visit the Tate Modern in London with its new extension, and take photographs of interesting things such as its facade, angles, viewpoints, contrasts, textures, street graphics, people etc. Collage and draw from these in your sketchbook. (page 2)● 2. Find an artist's work that links to the theme of Underneath, it can be from either of the buildings. Make a high quality drawing/painting of the artist's work. Select materials and techniques that worked well during your GCSE course (page 3)● 3. Take photographs from the surrounding area, record and draw from them. (page 4)● 4. Choose a current London based story recording images from the newspaper and social media, produce art work from these images (extension p5) <p>*Please make sure you see the Art Subject Specific Sheet that is in your pack and handed out on induction day.</p>
Biology	<ol style="list-style-type: none">1. Download the Edexcel syllabus for Biology A. https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/biology-a-2015.html2. Use a highlighter to look for sections with direct crossover to GCSE.3. Purchase the textbook Salters-Nuffield AS/A level Biology Student Book 1 ISBN: 978-14479910074. Read ahead and do some research into CVD (Cardiovascular disease). What are the common symptoms, outcomes for patients, treatments? Are there any new treatments or causes being discussed by the media? How reliable is the media for this information?5. For more information Contact gholt@vynersschool.org.uk
Business Studies	<ul style="list-style-type: none">● In preparation for the A level Business course and in particular for the first unit of study, please do the following:● Research two entrepreneurs of your choice. Try to choose two different types of entrepreneurs, for example, a male and a female, from different industries, etc.● Write a one page profile on each entrepreneur. This must include the characteristics that have made them successful and their motives for setting up a business.● Produce a timeline of a business of your choice showing how the business has evolved over the years. Indicate new product development, new markets, change in management etc.

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Chemistry	<ul style="list-style-type: none"> ● Download the Edexcel syllabus for Chemistry. https://qualifications.pearson.com/content/dam/pdf/A%20Level/Chemistry/2015/Specification%20and%20sample%20assessments/A_level_Chemistry_2015_Specification.pdf ● Use a highlighter to look for sections with direct crossover to GCSE ● IGCSE multiple choice paper (to be reviewed in September). ● Completion of summer transition booklet. This covers; <ul style="list-style-type: none"> ○ Atomic structure ○ Bonding ○ Formulae and equations ○ Quantitative chemistry <p>They also have extension activities (highly creative and high demand).</p> <ul style="list-style-type: none"> ● Purchase of A-level textbook (Pearson Edexcel AS/A level Chemistry 1; ISBN 978-1-4479-9117-5) and advance reading thereof (optional) ● Watch 'what is chemistry?' video: https://www.khanacademy.org/science/chemistry/atomic-structure-and-properties/introduction-to-the-atom/v/introduction-to-chemistry and prepare to discuss it critically in September and think about the question - how does chemistry relate to size and how does that relationship differ in physics and biology? ● Two of the first questions you will be asked will be 'why have you chosen A level Chemistry?' and 'what is Chemistry?' (the video may help with this one). It is worth thinking in advance of your answers to these two questions - the more creative/unusual the better!
Computing	<ul style="list-style-type: none"> ● Brief: Create a video game with the Python programming language and the PyGame module to make video games. Python makes for a great programming language to use when learning game development because of its simple syntax. You will be exposed to key A-level vocabulary and techniques required to complete your very own projects which carry 20% of your final coursework and vital concepts required for your final exams. ● Beginners must create the race car game called 'A bit Racey' ● Advanced students must create their <u>own game</u> using the techniques covered in the tutorial. ● Software Required: Python 3 with PyGame module. ● Resources: There are 20 videos on Youtube by Sentdex starting with : https://www.youtube.com/watch?v=ujOTNg17LjI&list=PLQVvva0QuDdLkP8MrOXLe_rKuf6r80KO ● I look forward to you explaining your games to us in September! <p style="text-align: center;">[00] / ___ \ d b</p>

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Drama	<ol style="list-style-type: none"> 1. Download and read the overview of AQA A-Level Drama and Theatre specification 2. Buy Methuen's <i>Our Country's Good</i> by Timberlake Wertenbaker https://www.amazon.co.uk/Our-Countrys-Good-Playmaker-Kenneally/dp/0413692302 and read it! 3. Buy Penguin's <i>Antigone</i> by Sophocles 4. https://www.amazon.co.uk/Three-Theban-Plays-Antigone-Classics/dp/0140444254/ref=sr_1_1?s=books&ie=UTF8&qid=1528723108&sr=1-1&keywords=antigone+sophocles&refinements=p_lbr_books_authors_browse-bin%3ARobert+Fagles and read it! 5. Go and watch a piece of theatre (preferably not a musical) - write a 50 minute response to what you saw answering the Q: <i>How did one or more performer(s) demonstrate <u>moments of tension</u> physically, vocally and spatially to keep the audience engaged and enthralled?</i>
Economics	<ol style="list-style-type: none"> 1. Watch 'The Big Short' (available on netflix currently) 2. Visit the Bank of England, the City of London and Canary Wharf. 3. Watch this link which is a good explanation of the financial crisis. 4. Make some bullet-pointed notes (maximum one side of A4) about <ol style="list-style-type: none"> 1) what happened in 'The Big Short' 2) how the financial crisis came about 3) whether the world economy has learned its lesson from the crisis or could it happen again. <p>These notes will enable you to participate in a class discussion during your first A level Economics lesson.</p>
English Literature	<p>When you begin A level English Literature in September, one of the texts you will study is '<i>The Great Gatsby</i>' by F Scott Fitzgerald.</p> <p>What we want you to do....</p> <ol style="list-style-type: none"> 1. Firstly, you need to read '<i>The Great Gatsby</i>' over the summer holidays. 2. Understanding this text's context is a key Assessment Objective. '<i>The Great Gatsby</i>' was written and set in early-twentieth century America, in the city of New York. To gain an insight into this context, complete one task from the 'Reading List' and one from the 'Watching List. You must also complete <u>at least one</u> of the suggestions from the 'Taste, Listen, and Explore List'. We recommend that you start a scrapbook (digital or physical) where you can record key quotations, your thoughts, pictures, photos and questions about the era. <p>Reading List – Read (at least) one of the following novels:</p> <p>'<i>Ragtime</i>' by E L Doctorow – a fictional chronicle of the Jazz Age in 1920s New York, guaranteed to give you an insight into Gatsby's era.</p> <p>'<i>Jazz</i>' by Toni Morrison – a novel exploring 'the hopes, fears and realities of black urban life' in 1920s.</p> <p>'<i>Z: A Novel of Zelda Fitzgerald</i>' by Therese Anne Fowler – a critically acclaimed biographical fiction of the wife of the author of 'The Great Gatsby'.</p> <p>'<i>Rules of Civility</i>' by Amor Towles – told from the vantage point of an older woman looking</p>

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	<p>back on her youth, this is a novel about the glamorous world of New York's Jazz Age.</p> <p>Watching List – Watch (at least) one of the following films:</p> <p><i>'The Roaring Twenties'</i> – a classic gangster movie from the 1930s, exploring the world of prohibition America, starring James Cagney and Humphrey Bogart.</p> <p><i>'Some Like it Hot'</i> – a combination of comedy, Chicago gangster action and romance set in the 1920s, starring Marilyn Monroe, Jack Lemmon and Tony Curtis.</p> <p><i>'Midnight in Paris'</i> – a Woody Allen fantasy film where a 21st century screenwriter is magicked away to the glamorous world of 1920s Paris.</p> <p>Taste, Listen, Explore – do at least one of the following:</p> <p>Taste – look up a recipe and make a cobb salad to experience the flavours that emerged from early twentieth century America.</p> <p>Listen to the sounds that gave the Jazz Age its name: Sidney Bechet and Duke Ellington are good starting points.</p> <p>The world's tallest building at the time was New York's Chrysler building. Find and explore some similar art deco architecture in London. Take pictures of the buildings' most interesting features. (Battersea Power Station, the Hoover Building or The Dorchester Hotel are some notable examples.)</p> <p><i>We look forward to hearing your conclusions to your first 'tastes' of 'The Great Gatsby'.</i></p>

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Level 3 Food Science & Nutrition	<p>Summer preparation assignment: Instructions are also on the google classroom</p> <p>1: The link below will lead you to a documentary /TV program called 'Food Inspectors'.</p> <p>https://www.youtube.com/watch?v=AlaSXeycilc</p> <p>This broadcast illustrates the role of a health and safety officer (Food inspector) working within the food industry. One of the main roles of a health and safety officer is to award a food hygiene rating (a score out of 5). This score or rating is informed by assessing a number of important criteria such as staff hygiene, cleanliness of facilities and correct food storage.</p> <p>Watch the documentary and then summarise the role of a health and safety office by answering the exam question below... to answer the exam question thoroughly you should make notes while watching the program (not all of the program is about the role of a health and safety officer so there may be elements that you wish to fast forward through...)</p> <p style="padding-left: 40px;">'Explain the role of a health and safety officer when performing a routine check on a catering establishment ' (10 Marks)</p> <p>2: A good understanding of a range of vitamins and minerals will be required to succeed in this course. Use the internet and/or text books to research the functions of and common examples/sources of the following important vitamins and minerals. For each of the following state the function within the body and at least three sources...</p> <p>Vitamin A, Vitamin B1, Vitamin B2, Vitamin B12, Vitamin C, Vitamin D, Vitamin K, Calcium, Sodium, Phosphorus, Iron, Zinc, Cholesterol & potassium.</p> <p>3: A clear understanding of Macronutrients and Micronutrients will be expected. Research and summarise the importance of and examples of both. How you present this information is up to you.</p> <p>4: The coursework/NEA investigation task that you will have to complete in Year 12 is likely to be based around meeting the nutritional needs of different demographics (age groups for example). With this in mind, research and present the specific nutritional needs of the following demographic groups. You could present your findings in mind maps, a table or written paragraphs.</p> <ul style="list-style-type: none"> ● Nutritional needs of teenagers ● Nutritional needs of pregnant women ● Nutritional needs of old age pensioners ● Nutritional needs of people with diabetes

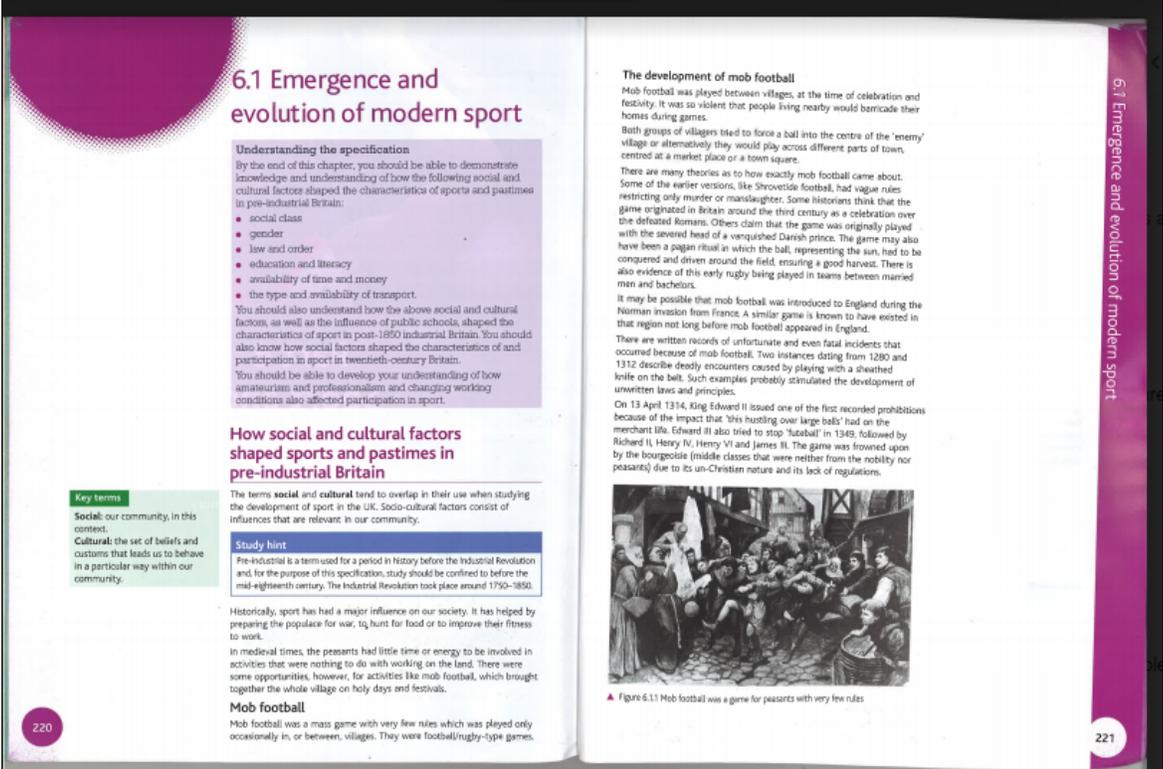
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Geography	<p>An introduction into Human A-level Geography:</p> <p>Global groupings Trade blocs: To trade easily between countries, certain agreements have been created. Examples are EU, NAFTA, CARICOM. Economic groupings: Countries are grouped together based on wealth and power. Examples are LICs/HICs (LDC or HDCs), NICs, OPEC and OECD.</p> <p>Task:</p> <ol style="list-style-type: none"> 1. Research what do the acronyms above stand for? <p>TNCs and Trade aims</p> <ul style="list-style-type: none"> • They tend to operate where labour is cheap and regulations are lacking. • To gain government grants from countries that are attracting new business. • They operate inside local trade barriers and avoid tariffs. • They like to be near markets. <p>Tasks:</p> <ol style="list-style-type: none"> 1. Create an annotated photo of either your family car or your living room with the various places where the parts/ features were manufactured. 2. Choose an example of a TNC and create a timeline of events since their foundation as a company. What have been the benefits that the company has brought to the countries involved? Examples could be Nike, Mattel, Disney or Tesco. <p>Networks and hubs The term 'global network' refers to links between different countries in the world, this includes – flows of capital, traded goods, services, information (and people). Some areas are well connected i.e. high income areas, others poorly i.e. low income areas.</p> <p>Task:</p> <ol style="list-style-type: none"> 1. Create a case study of Easyjet - an example of a shrinking world. Include some background information, role of technology and current impact of the company. <p>General useful books, programmes, podcasts etc:</p> <p>Read:</p> <ul style="list-style-type: none"> • 'Prisoners of Geography' by Tim Marshall • 'Factfulness' by Hans Rosling • 'Geography: Ideas in Profile' by Danny Dorling, Carl Lee • 'The Water Will Come' by Jeff Goodell <p>Watch:</p> <ul style="list-style-type: none"> • Great Barrier Reef - Richard Fitzpatrick, David Attenbrough • Everything you need to know about planet earth - Kurtzegast • The Future of Water - Netflix • Earth's Great Rivers - iPlayer • Turning Point: 9/11: War on Terror - Netflix

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	<p>Listen:</p> <ul style="list-style-type: none"> ● Cows, carbon and climate - Joel Salatin - TED talk ● Climate Cast - Sky news weekly podcast about climate change ● Haiti's disaster of engineering - Peter Haas - TED Talk ● How not to be ignorant about the world - Hans and Ola Rosling - TED Talk
German	<ul style="list-style-type: none"> ● Watch "Goodbye Lenin "(Film) by Wolfgang Becker and make notes on historical background and the character of Alex and his mother Christiane. ● Read the novel "der Vorleser" by Bernhard Schlink. English translation "The Reader". Made into a film but you must read the book. ● Complete PIXL independence KS5 (available from MFL department) ● Visit Goethe Institut London 50 Princes Gate, Exhibition Road Knightsbridge: https://www.goethe.de/ins/gb/en/index.html for additional resources and support with A level.
Government & Politics	<ul style="list-style-type: none"> ● Please complete the preparation sheet here.
History	<ul style="list-style-type: none"> ● Tudors <ol style="list-style-type: none"> 1. Read the following extracts (online and attached). 2. Make concise notes for your revision. 3. Prepare a 2 minute speech on the War of the Roses that could be delivered to a year 8 class. 4. You are to create a display showing how Tudor England functioned (including: power of the monarch, government, society, parliament, popular religion and foreign policy). <ul style="list-style-type: none"> ● America <ol style="list-style-type: none"> 1. Read the following extract. <p>This is a background history to help you understand the context of the period we are studying, therefore you don't need to get down key statistics etc.</p> <p>The aim is to give you an overview of the key themes we will be studying:</p> <ul style="list-style-type: none"> - Economy - Domestic policy - Foreign policy - Race relations <p>This is quite an advanced piece of reading and is not something you will be able to absorb the night before your first history lesson in September! Give yourself time to read it carefully, look words up that you don't understand and come to lesson ready to offer some of your thoughts.</p>
Mathematics	<ul style="list-style-type: none"> ● Download and print a copy of the Edexcel A-Level Mathematics specification. ● Completion of transition booklet for September (This can be found on the google classroom titled MATHEMATICS Sixth Form Transition Work - If you are unable to access this please email ncox@vynersschool.org.uk) ● Watch a video from the Youtube channel Numberphile https://www.youtube.com/user/numberphile/ and make notes on that video to share to the class in September. ● Read an article from plus magazine. Be ready to discuss this in September https://plus.maths.org/content/

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Further Maths	<ul style="list-style-type: none"> ● Download and print a copy of the Edexcel A-Level Mathematics specification. ● Completion of transition booklet for September (This can be found on the google classroom titled MATHEMATICS Sixth Form Transition Work - If you are unable to access this please email ncox@vynersschool.org.uk) ● To complete at least 2 out of the 5 problem solving sheets from the FMSP (Further Math's Support Programme) http://furthermaths.org.uk/y12probsolv ● Watch and make notes on the video 'Imaginary Numbers are real' https://www.youtube.com/watch?v=T647CGsuOVU
Media	<ul style="list-style-type: none"> ● Watch an entire crime television drama series - this doesn't need to be a long winded series with excessive episodes, it could be an ITV three part series (such as Little Boy Blue/Trauma). ● Get a copy of both a tabloid and a broadsheet newspaper, read through and make notes on differences. ● Listen to at least one podcast from Radio 4's Late Night Woman's Hour and make a note of topics discussed and the style of broadcasting.
Music	<ul style="list-style-type: none"> ● Listen 5 symphonies from each of the classical and romantic eras ● Practice a piece ready for September that is Grade 5+. ● Listen to 5 pieces of Jazz Music ● Listen to a piece of music by Debussy and then one by Poulenc ● Listen to one podcast of your choice about the history of classical music (BBC sounds has a lot of good ones)
Photography	<ul style="list-style-type: none"> ● Attend a photography exhibition of your choice. ● From this trip select a theme/artist/photographer that you found inspirational and complete your own shoot based on this work. This shoot needs to include at least 40/50 of your own photos, select 12 best images and edit in Photoshop. ● Select and begin to research a photographer from the following themes, Buildings and Structures, Portraits, Light and Landscape, Still life.
Physics	<ul style="list-style-type: none"> ● Download and print the AQA A-Level Physics specification. ● https://filestore.aqa.org.uk/resources/physics/specifications/AQA-7407-7408-SP-2015.PDF. Go through chapter 1 highlighting areas of GCSE crossover. ● Complete the online CPAC training by following the link. Save and print the certificate. http://contact.aqa.org.uk/P.aspx?accountKey=aCjA4Xe24dEmaeN075At2P&PageId=28815199df39e5118118c4346badb10c ● Choose a book from the reading list to be read before Christmas. The reading list can be found here.
Product Design	<ul style="list-style-type: none"> ● Visit a gallery/museum e.g. Design Museum, History Museum, V&A, Tate Modern, Science Museum etc. ● Do an observational trip - this could be anywhere and linked to a Contextual Challenge/Theme/Identified problem. Look for situations and solutions that could be resolved by designing and making a product/s. It could be something to help the elderly, someone with a disability or a product to help young children learn. ● From this trip, do detailed observational drawing in a range of chosen media. Remember that the work you do is about <u>communicating</u> your thoughts and ideas.

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	<ul style="list-style-type: none"> ● Evidence this by annotations on the work and show the recording of your visit and work produced. ● Collate and take photographs of any urban environment, [again this must be annotated] that you feel could add support or evidence to your work. ● Collate a series of 20/25 drawings based on ideas and techniques that would resolve your identified problem and that addresses the Contextual Challenge. <p>*Please make sure you take along a responsible adult to any trips and visits. Also, please be on your best behaviour as you still represent the school.</p>
Psychology	<p>Visit The AQA syllabus website and study the content for A level and ensure you are familiar, capable of and interested in this. Ensure you scroll down to A level as that is the course that Vyners offers - its a two year course not the one year AS then option for year 2. Ensure you understand and can manage committing to a two year course that you won't have studied as a subject before. It is important you are very familiar with the requirements before you arrive to class in September.</p> <p>https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/specifica-tion-at-a-glance</p> <p>Then visit the examinations website also and peruse the A LEVEL papers so you know what is involved in your final 3, two hours examinations</p> <p>https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/assessment-resources</p> <p>The core textbook AQA Psychology for A level year 1 AS: Flanagan et al ISBN 978191 2820429 illuminate publishing, that we will be using in class (green haired girl book). We will give you access to the ecopy once you are registered in September.</p> <p>Summer homework will be given to you on the taster day</p> <p>Equipment</p> <p>It's a good idea to get yourself a set of coloured light card envelope folders for each topic. This means you won't have to carry in a big folder each day with different topics or subjects muddled in together- we will just use one at a time per topic. You will be bringing this in to school and home for independent work. Everything for that topic will need to be in this - handouts, written notes, essay plans, tests etc</p> <p>Something like this</p> <p>https://www.whsmith.co.uk/products/whsmith-a4-document-wallets-pack-of-5/5013872037246.html</p> <p>You'll also need a large notepad for taking notes and the usual stationary similar to lower school - ruler, pencils, pens, glue stick etc.</p>
ICT BTEC	<ul style="list-style-type: none"> ● Brief: You are to carry out research and find information about internal computer hardware components. You are to create a PowerPoint presentation and explain the function of computer hardware components. It is up to you how you structure your presentation but you must include an introduction, images of components, the details of the components (comparison table could be created) and the suitability for the job that the components will be used for e.g. would it be able to handle various applications to be used at one time. ● Software: Any suitable presentation software

Subject	Pre-Course Work/Activities
	<ul style="list-style-type: none"> ● In the presentation you will need to mention the internal system unit components such as the following: <ol style="list-style-type: none"> 1. Processors 2. Motherboard 3. BIOS settings 4. Power supply 5. The type of cooling systems 6. The type of hard drive and its configuration 7. The different ports available 8. Internal Memory e.g. RAM, ROM 9. The different specialized cards
OCR Technical Sports Diploma	<p>This summer work is related to Unit 1 - Body Systems and the Effects of Exercise which is an examined unit with the exam being in January 2020.</p> <ol style="list-style-type: none"> 1. Find, and print off, a blank skeleton from the internet and label the following bones - cranium, sternum, ribs, vertebral column, cervical vertebrae, thoracic vertebrae, lumbar vertebrae, sacrum, coccyx, scapula, clavicle, humerus, radius, ulna, carpals, metacarpals, phalanges, pelvis, ilium, ischium, pubis, femur, patella, fibula, tibia, talus, tarsals, metatarsals, phalanges. Much of this is good revision from GCSE but you will notice that there are some new bones you need to know. 2. Find, and print off, a blank muscle diagram from the internet. Research where the following muscles can be found and label the diagram - Anterior deltoid, Posterior deltoid, Latissimus Dorsi, Pectoralis major, Trapezius, Teres major, Biceps brachii, Triceps brachii, Pronator teres, Supinator muscle, Wrist flexors, Wrist extensors, Rectus abdominus, Erector spinae group, Internal and external obliques, Iliopsoas, Gluteus maximus, Gluteus medius, Gluteus minimus, Adductor longus, Adductor brevis, Adductor Magnus, Rectus femoris, Vastus medialis, Vastus intermedius, Vastus lateralis, Biceps femoris, Semimembranosus, Semitendinosus, Tibialis anterior, Gastrocnemius, Soleus. Many of these will be new to you. 3. Types of Bones - there are LONG BONES, SHORT BONES, FLAT BONES, IRREGULAR BONES AND SESAMOID BONES. Research the function of each type of bone and how it is able to carry out its function. Create a table with the information in it. <p>Any questions reference this work please email thall@vynersschool.org.uk</p>
PE	<p><u>A Level PE – Sport and Society – Year 11 into 12 Summer Work</u></p> <p><u>Emergence and Evolution of Modern Sport</u></p> <p><i>Using the textbook pages provided and the internet, discover the answers to the following:</i></p> <ol style="list-style-type: none"> 1. What are social factors that shaped sport? 2. What are cultural factors that shaped sport? 3. What time period does ‘pre-industrial’ refer to?

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	<p>Mob Football</p> <ol style="list-style-type: none"> 4. What is mob football? 5. What was the aim of the game? 6. Who was it played between? 7. Where did it take place? 8. What rules did they follow? 9. Give one theory of where mob football came from 10. When was mob football banned?  <p>A Level PE – Psychology – Year 11 into 12 Summer Work</p> <p><u>Skill Acquisition:</u></p> <p><u>Make notes on the following Skill Classification continuums:</u></p> <ul style="list-style-type: none"> - Muscular Involvement - Environmental Influence - Difficulty - Pacing - Continuity - Organisation

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	<p><u>Include:</u></p> <ol style="list-style-type: none"> 1. What is at the end of each continuum? 2. What determines where that skill is placed on the continuum? 3. Give an example of a skill at each end of the curriculum <p><u>A Level PE – Physiology – Year 11 into 12 Summer Work</u></p> <ol style="list-style-type: none"> 1. Find, and print off, a blank skeleton from the internet and label the following bones - cranium, sternum, ribs, vertebral column, cervical vertebrae, thoracic vertebrae, lumbar vertebrae, sacrum, coccyx, scapula, clavicle, humerus, radius, ulna, carpals, metacarpals, phalanges, pelvis, ilium, ischium, pubis, femur, patella, fibula, tibia, talus, tarsals, metatarsals, phalanges. Much of this is good revision from GCSE but you will notice that there are some new bones you need to know. 2. Find, and print off, a blank muscle diagram from the internet. Research where the following muscles can be found and label the diagram - Anterior deltoid, Posterior deltoid, Latissimus Dorsi, Pectoralis major, Trapezius, Teres major, Biceps brachii, Triceps brachii, Pronator teres, Supinator muscle, Wrist flexors, Wrist extensors, Rectus abdominus, Erector spinae group, Internal and external obliques, Iliopsoas, Gluteus maximus, Gluteus medius, Gluteus minimus, Adductor longus, Adductor brevis, Adductor Magnus, Rectus femoris, Vastus medialis, Vastus intermedius, Vastus lateralis, Biceps femoris, Semimembranosus, Semitendinosus, Tibialis anterior, Gastrocnemius, Soleus. Many of these will be new to you. 3. Types of Bones - there are LONG BONES, SHORT BONES, FLAT BONES, IRREGULAR BONES AND SESAMOID BONES. Research the function of each type of bone and how it is able to carry out its function. Create a table with the information in it. <p>Any questions reference this work please email thall@vynersschool.org.uk</p>