



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

Subject	Focus	Activities	Useful website
Accounting	<ul style="list-style-type: none">To apply activity-based costing to make decisionsTo reconcile between ABC costing and traditional costing	<p>Research and prepare report on companies using ABC costing.</p> <p>Analyse how it is different from absorption costing.</p> <p>On the completion evaluate the effect on valuation of inventory and on profit.</p>	<p>www.accounting-simplified.com/financial-accounting/accounting-concepts-and-principles/</p> <p>www.dineshbakshi.com</p> <p>www.cie.org.uk</p> <p>www.sway.com</p>
Arabic	<p>TOPIC:</p> <p>قصيدة البركة قصة السماور كتابة استجابة لنص أدبي</p> <p>Learning objectives</p> <p>أن يحلل النصّ الشعريّ تحليلًا فكريًا ونقديًا وبلاغيًا. أن يوضح الفكرة الرئيسة والأفكار الفرعية. أن يستنتج الدلالات التعبيرية. أن يقارن الطالب بين النص ونص آخر موضحًا أوجه التشابه والاختلاف. أن يكتب استجابات شخصية للنصوص تعكس فهمه للمعنى.</p> <p>أن يراجع مسودات متعددة لما يكتب، ويعيد تحريرها أن يحدد النقاط الرئيسة التي قام عليها النص أن يحلل المتعلم أفكار القصة رابطًا إياها برؤية الكاتب وتجربته الفنية أن يحلل جوانب النصوص (إنشاء المكان والزمان). أن يفسر المتعلم الكلمات مستعينًا بالمعجم الورقي والرقّي. أن يتتبع الأثر الذي يتركه أسلوب الكاتب؛ لإيصال الفكرة. تتبع الأثر الذي يتركه أسلوب الكاتب؛ لإيصال الفكرة.</p>	<p>أن يحلل النصّ الشعريّ تحليلًا فكريًا ونقديًا وبلاغيًا. أن يوضح الفكرة الرئيسة والأفكار الفرعية. أن يستنتج الدلالات التعبيرية. أن يقارن الطالب بين النص ونص آخر موضحًا أوجه التشابه والاختلاف. أن يكتب استجابات شخصية للنصوص تعكس فهمه للمعنى.</p> <p>أن يراجع مسودات متعددة لما يكتب، ويعيد تحريرها أن يحدد النقاط الرئيسة التي قام عليها النص أن يحلل المتعلم أفكار القصة رابطًا إياها برؤية الكاتب وتجربته الفنية أن يحلل جوانب النصوص (إنشاء المكان والزمان). أن يفسر المتعلم الكلمات مستعينًا بالمعجم الورقي والرقّي. أن يتتبع الأثر الذي يتركه أسلوب الكاتب؛ لإيصال الفكرة.</p>	<p>http://alhaselah.com/2022/04/BERKA.html#google_vignette</p> <p>https://www.youtube.com/watch?v=Tngwo3p7lwQ&t=391s</p> <p>https://seraj-uae.com/file/6220/#2</p>



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<p>أن يراجع مسودات متعددة لما يكتب، ويعيد تحريرها أن يحدد النقاط الرئيسية التي قام عليها النص أن يحلل المتعلم أفكار القصة رابطا إياها - برؤية الكاتب وتجربته الفنية</p>	<p>أن يحلل المتعلم الأفكار في القصة.</p>	
Islamic Studies Arabs	<p>سورة النور - 26-11 حديث الإفك السنن الربانية</p> <p>Learning objectives:</p> <ul style="list-style-type: none">- يفسر معاني مفردات الآيات الكريمة -- يستنتج بعض أحكام الآيات الكريمة -- يبين الآثار السلبية للشائعات على الفرد والمجتمع.- يستنتج فضل أم المؤمنين عائشة - رضي الله عنها- يحرص على القيم التي تضمنتها - الآيات الكريمة	<p>فكر في أكبر قدر من أوجه الخير الذي حملته حادثة الافك، قال تعالى: (لا تحسبوه شرا لكم بل هو خير لكم)</p> <p>ما دلالة نزول وحي من السماء ببراءة السيدة عائشة رضي الله عنها؟</p> <p>ما دلالة استخدام لفظة (بأنفسهم) بدلا من لفظة (بإخوانهم) في قوله تعالى: ظن المؤمنون والمؤمنات بأنفسهم خيرا)؟</p> <p>ما دور المسلم في مواجهة طرائق إشاعة الفاحشة؟</p> <p>من خلال التعلم الذاتي: قارن</p>	<p>http://quran.ksu.edu.sa/tafs-eer/tabary/sura24-aya11.html</p> <p>https://seraj-uae.com/file/2863/</p> <p>https://ar.islamway.net/article/48218/-%D8%A5%D9%86-%D8%A7%D9%84%D8%B0%D9%8A%D9%86-%D8%AC%D8%A7%D8%A1%D9%88%D8%A7-%D8%A8%D8%A7%D9%84%D8%A5%D9%81%D9%83-%D8%B9%D8%B5%D8%A8%</p>



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<p>توضيح مفهوم السنن الربانية1- . وأقسامها.</p> <p>2. تحديد السنن الشرطية في القرآن الكريم والسنة النبوية</p> <p>3. معرفة أهمية السنن الربانية للفرد والمجتمع</p>	<p>بين العفو والصفح..</p> <p>1- ابحث عن مفهوم السنن الربانية وأقسامها</p> <p>2- حدد مفهوم السنن الشرطية والسنن الحتمية مع التمثيل</p> <p>3- اذكر أهمية السنن الربانية وكيف يحقق المؤمن الإيمان بها؟</p> <p>4- بالتعاون مع زملائك حدد الوسائل التي تعين على معرفة السنن الربانية.</p>	<p>D8%A9- %D9%85%D9%86%D9%83% D9%85</p> <p>https://www.uae-study.com/2020/07/Solve-lesson-Sunan-Lord-grade-12.html</p>
Islamic Studies Non-Arabs	<p>TOPIC: MARITAL DISSOLUTION- SEPARATION OF SPOUSES</p> <p>Learning objectives:</p>	<p>WRITE DOWN AN ARTICLE ON THE IMPORTANT OF MUTUAL RESPECT IN BUILDING A UNITED FAMILY? COMPARE THE FAMILY SYSTEM BEFORE ISLAM AND HOW IT CHANGED AFTER THE PROPHETHOOD OF PROPHET (P.B.U.H). GIVE SOME EXAMPLES OF THE EFFORTS OF</p>	



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<p>-To comprehend the importance of a balanced relationship of spouses</p> <p>- To analyse the social importance of a happy relationship between spouses.</p> <p>TOPIC- MARITAL DISSOLUTION- SEPARATION OF SPOUSES</p> <p>LEARNING OBJECTIVES-</p> <p>To analyze the factors lead to the separation of spouses</p> <p>- To evaluate the consequences of separation on family and society.</p>	<p>U.A.E TO ENHANCE THE IMPORTANCE OF STRONG FAMILY TIES AMONG OF ITS PEOPLE. BY USING.</p> <p>Analyze the importance a good relationship between a husband and a wife to keep a strong family system. How does a strong family system contribute towards a positive contribution in a society?</p>	<p>https://islamonline.net/en/social-system-of-islam-place-of-family-in-islam/</p>
--	---	---	--



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

<p>Biology</p>	<p>Biodiversity</p> <p>1. To justify Biodiversity is much more than a list of all the species in a particular area.</p> <p>Classification</p> <p>To analyze the organisms studied locally may be used to show how hierarchical classification systems are organized.</p> <p>Conservation.</p> <p>To understand and evaluate maintaining biodiversity is important for many reasons. Actions to maintain biodiversity must be taken at local, national and global levels.</p> <p>It is important to conserve ecosystems as well as individual species.</p> <p>PHOTOSYNTHESIS:</p>	<p>2. List the criteria used to classify an organism as endangered.</p> <p>3. Research and define what is meant by the term conservation.</p> <p>4. Produce a written summary of the different methods employed to protect endangered species, stating also the advantages and disadvantages of each.</p> <p>5. Choose a specific organism that is considered to be endangered and present to the class the reasons for the organism being endangered. Include the species name if the organism is known by an additional name. This exercise could be done in pairs using a local / national example and a global example. Add to the list produced for activity 2, if necessary.</p> <p>6. Following presentations, group work to discuss the best method for protecting the organisms.</p> <p>7. Research local, national and international efforts to protect endangered species.</p>	<p>http://www.nationalgeographic.com/xpeditions/lessons/08/g68/preserve.html</p> <p>http://www.davidsuzuki.org/search/?q=biodiversity&x=0</p> <p>https://www.siyavula.com/read/science/grade-10-lifesciences/biodiversity-and-classification/09-biodiversity-and-classification-03</p> <p>https://link.springer.com/journal/10531</p> <p>http://www.coml.org/investigating/observing/quadrat_sampling.html</p>
----------------	--	---	--



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<ul style="list-style-type: none"> • To Elucidate the three steps of Light dependent reaction and signify it over light independent reaction. • To justify the independence of Light independent reaction with emphasis on the steps involved. • To elaborate the adaptations of CAM plants/the biochemistry of C4 	<ul style="list-style-type: none"> • Schematically illustrate the purpose of photosynthesis and transfer of energy from light to complex organic molecules. • Interpret graphs showing the effects of limiting factors. • Draw a labelled diagram of a palisade cell and a chloroplast and write a summary of how they are adapted for photosynthesis.5. .Produce an annotated diagram of the light-dependent stage. • Add bullet points to build understanding of photolysis, photosystems, chain of electron carriers / ATP production and reduction of NADP. • Investigate the effect of light intensity and light wavelength on the Hill reaction, using a very simple protocol. • Give a brief outline of the main types of photosynthetic pigments, distinguishing between primary and accessory pigments. <p>Sketch out absorption and action spectra, explaining the similarities and differences between the two.</p>	<ul style="list-style-type: none"> • http://www.biologymad.com/ • http://faculty.uca.edu/johnc/Chloroplast_and_microbodies.jpg • http://www.teachnet.ie/foneill/cyclic.html • http://www.saps.plantsci.cam.ac.uk/worksheets/ssheets/ssheet10.htm • http://www.wiley.com/college/boyer/0470003790/animations/photosynthesis/photosynthesis.htm
	<p>The evaluate the impact of and issues associated with corporate social responsibility (CSR), e.g. accounting practices, paying</p>	<p>Research the CSR policy of one such business in their own country or using the website links provided opposite and analyze in a table the effects that policy is likely to have on the following areas of business activity:</p>	<p>www.mcdonalds.com/gb/en-gb/help/faq/19263-what-is-mcdonalds-corporate-social-responsibility-csr-policy.html</p>



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

Business Studies	incentives for the award of contracts, social auditing	<ul style="list-style-type: none">• production• marketing• employment• finance• objectives. Many businesses have downloadable corporate social responsibility policies.	www.coca-colacompany.com/sustainable-business
Chemistry	<u>Chemical Energetics (Lattice Energy)</u> <ul style="list-style-type: none">• Establish an understanding of the terms lattice energy, ionisation energy, enthalpy change of atomisation and electron affinity• Use energy cycles (Born-Haber) to calculate enthalpy changes• Interpret and explain qualitatively the trend in the thermal stability of the nitrates and carbonates in terms of the charge density of the cation and the	<ul style="list-style-type: none">• Write equations to display enthalpy changes (electron affinity, ionisation energy, enthalpy of atomisation)• Draw labelled Born-Haber cycle for ionic solids• Calculate lattice energy and enthalpy of formation of ionic solids from group 1 and group II using Born-Haber cycle• Make a PowerPoint presentation to show the trends in the thermal stability of Group 2 nitrates and carbonates.• Construct and use Hess's law to measure the enthalpy of solution using lattice energy and enthalpy of hydration• Research on 'Why Fluorine and Oxygen break the trend in electron affinity' <u>Activity:</u>	<ul style="list-style-type: none">• http://www.docbrown.info/page07/delta2Hb.htm• http://alevelchemistry.com/aqa_a_level_chemistry/unit3.5/s351/02.htm• http://chubbyrevision-a2level.weebly.com/thermodynamics.html• http://www.chemguide.co.uk/inorganic/group2/thermstab.html



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<p>polarizability of the large anion</p> <ul style="list-style-type: none">• Relate enthalpy change of solution, lattice energy and enthalpy change of hydration• Interpret and explain qualitatively the variation in solubility of the hydroxides and sulfates in terms of relative magnitudes of the enthalpy change of hydration and the corresponding lattice energy <p>Benzene and its compounds:</p> <ul style="list-style-type: none">- Interpret and use the general, structural, displayed and skeletal formulae of the following classes of compound:<ul style="list-style-type: none">i) arenes(ii) halogenoarenes(iv) acyl chlorides	<ul style="list-style-type: none">• Create a Infographic poster to explain and apply rules of Nomenclature to name benzene and its compounds.• Create a 3D model to explain the structure of benzene.<ul style="list-style-type: none">• Bond angles• Hybridization• Sigma and pi bonds• Planar structure• Prepare a flow chart to describe all the reactions of benzene clearly mentioning conditions required and reagents required.• Create a list of questions using bloom's taxonomy starting with lower order to higher order.• Write an article discussing Importance of benzene and its compounds in the real life.	<ul style="list-style-type: none">• http://www.chemgui.de.co.uk/physical/energetics/solution.html• http://www.scienceskool.co.uk/uploads/9/5/5/0/9550437/thermodynamics_and_born_haber.pdf <p>Nomenclature of benzene http://colapret.cm.utexas.edu/courses/Nomenclature_files/Benzene%20&%20%20Derivatives.htm https://www2.chemistry.msu.edu/faculty/reusch/virttxtjml/nomen1.htm</p> <p>Chemistry of Benzene https://en.wikibooks.org/wiki/A-level_Chemistry/OCR_(Salters)/Reactions_of_arenes</p> <p>Practice problems based on benzene and its compounds.</p>
--	---	--	--



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<p>understand and use systematic nomenclature of simple aromatic molecules with one benzene ring</p> <ul style="list-style-type: none">- and one or more simple substituents, for example 3-nitrobenzoic acid, 2,4,6-tribromophenol- describe and explain the shape of, and bond angles in, the benzene molecules in terms of σ and π bonds- describe the chemistry of arenes- describe the mechanism of electrophilic substitution in arenes,- Interpret the difference in reactivity between benzene and chlorobenzene predict whether halogenation will occur in the side-chain or in the aromatic ring in arenes		<p>http://www.a-levelchemistry.co.uk/unit-4.html</p> <p>Uses of Benzene http://www.ehow.com/about/5262758_uses-benzene.html</p>
--	--	--	--



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	depending on reaction conditions		
Economics	<ul style="list-style-type: none"> To analyse the Law of Diminishing Marginal Utility and its relationship to the derivation of an individual demand schedule and curve understand the concept of Total/average and marginal utility and how these are calculated. Evaluate the Principle of Diminishing Marginal Utility 	<p>Track your satisfaction (utility) from consuming a repeated item (e.g., slices of pizza or cups of tea). Record and calculate total, average, and marginal utility. Graph your results and describe the pattern you observe. Using the data from Activity 1, draw a Marginal Utility curve. Explain how this supports or contradicts the Law of Diminishing Marginal Utility.</p> <p>Do all consumers experience diminishing marginal utility in the same way? Give two examples of goods where this law might not clearly apply and explain why.</p> <p>Imagine you have AED 100 to spend on two goods (e.g., movie tickets and snacks). Based on diminishing marginal utility, allocate your budget to maximize satisfaction and explain your reasoning with calculations.</p>	<p>www.tutor2u.net/economics/revision-notes/as-markets-demand.html</p> <p>https://www.economicshelp.org/blog/glossary/marginal-utility-theory/ Cambridge International AS and A Level Economics (2nd edition) Bamford, Chapter 2 (extended) 71-73 Stanlake, Chapter 8, p 67 Gillespie, p 6</p> <p>www.bized.co.uk</p> <p>www.s-cool.co.uk</p>
Mathematics <u>Pure Mathematics 3</u>	<p>Vectors and Complex Numbers</p> <ul style="list-style-type: none"> use standard notations for vectors carry out addition and subtraction of vectors and multiplication of a vector by a scalar, and interpret these 	<p>Research on the application of vectors</p> <p>Air traffic controllers: Vectors can be used by air-traffic controllers when tracking planes, by meteorologists when describing wind conditions, and by computer programmers when they are designing virtual worlds.</p> <p>Vector space : Application of vector space is required in Engineering and computer science. Vector spaces have many applications as they occur frequently in common circumstances. Vector spaces furnish an abstract,</p>	<p>https://revisionmaths.com/advanced-level-maths-revision/pure-maths/geometry/vectors</p> <p>https://www.examsolutions.net/tutorials/exam-questions-vectors/</p> <p>https://madasmaths.com/archive/maths_booklets/further_topics/linear_algebra/v</p>



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<p>operations in geometrical terms</p> <ul style="list-style-type: none">• calculate the magnitude of a vector, and use unit vectors, displacement vectors and position vectors• understand the significance of all the symbols used when the equation of a straight line is expressed in the form $r = a + tb$, and find the equation of a line, given sufficient information• determine whether two lines are parallel, intersect or are skew, and find the point of intersection of two lines when it exists• use formulae to calculate the scalar product of two vectors, and use scalar	<p>coordinate-free way of dealing with geometrical and physical objects such as tensors.</p> <p>Application of vector space in computer science: The minimax theorem of game theory stating the existence of a unique payoff when all players play optimally can be formulated and proven using vector space methods.</p> <p>Resolution of Vectors in Daily Life: Sharpening wooden pencil with a blade- We cut the pencil at an angle. The component of force in the direction perpendicular to the pencil cuts the pencil. The component of force in the direction parallel to the pencil removes the thin wooden part. Banking of Roads, Earth's magnetic field</p>	<p>vector exam questions part a.pdf https://pmt.physicsandmathstutor.com/download/Maths/A-level/Pure/Vectors-2/Cheat-Sheets/Vectors.pdf https://www.mathsgenie.co.uk/resources/as-pure-vectors.pdf https://docs.google.com/document/d/1iv0hKFMMyKHhP4xZhxon-3U_xuX8tyeM/edit#heading=h.gjdgxs https://www.examsolutions.net/tutorials/exam-questions-complex-numbers/ https://madasmaths.com/archive/maths_booklets/further_topics/various/complex_numbers_part_1_exam_questions.pdf </p>
--	--	--	--



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<p>products in problems involving lines and points.</p> <ul style="list-style-type: none">• understand the idea of a complex number, recall the meaning of the terms real part, imaginary part, modulus, argument, conjugate, and use the fact that two complex numbers are equal if and only if both real and imaginary parts are equal• carry out operations of addition, subtraction, multiplication and division of two complex numbers expressed in Cartesian form $x + iy$• use the result that, for a polynomial equation with real coefficients, any non-real roots occur in conjugate pairs		
--	---	--	--



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

<p>Mechanics</p>	<p>Mechanics – kinematics</p> <ul style="list-style-type: none"> understand the concepts of distance and speed as scalar quantities, and of displacement, velocity and acceleration as vector quantities sketch and interpret displacement–time graphs and velocity–time graphs, and in particular appreciate that the area under a velocity–time graph represents displacement, – the gradient of a displacement–time graph represents velocity, – the gradient of a velocity–time graph represents acceleration <p>use differentiation and integration with respect to time to solve simple problems</p>	<p>Research on the real life applications of kinematics in Astrophysics to describe the motion of celestial bodies and collections of such bodies</p> <p>Motion measurement can be used to evaluate functional performance of limbs under normal and abnormal conditions.</p> <p>Kinematic knowledge is also essential for proper diagnosis and surgical treatment of joint disease and the design of prosthetic devices to restore function.</p> <p>Kinematics is used to analyse the motion of athletes to improve their technique and performance.</p>	<p>https://www.physicsandmathstutor.com/maths-revision/a-level-edexcel/kinematics/</p> <p>https://www.savemyexams.com/igcse/maths/edexcel/22/revision-notes/3-sequences-functions-and-graphs/differentiation/kinematics/</p> <p>https://www.revisely.com/alevel/maths/edexcel/mechanics-questions/kinematics/kinematics</p> <p>https://igcsemaths.in/category/as-level-maths-9709/m1-mechanics-1/kinematics-of-motion-in-a-straight-line/</p>
<p>Statistics 2</p>	<p>Topic: The Poisson Distribution</p>	<p>Research and summarize findings with examples on real life application of the Poisson distribution.</p>	<p>https://www.scribbr.com/statistics/poisson-</p>



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<ul style="list-style-type: none"> • Calculate probabilities for the Poisson distribution • Use the Poisson distribution as a model • Use the Poisson distribution to approximate the binomial distribution <p>Use the normal distribution to approximate the Poisson distribution</p>		<p>distribution/#:~:text=A%20Poisson%20distribution%20is%20a,the%20mean%20number%20of%20events.</p> <p>https://www.youtube.com/watch?v=2zK3KpV3bx4 [Introduction]</p> <p>https://revisionmaths.com/advanced-level-maths-revision/statistics/poisson-distribution</p>
Psychology	<p>Introduction to Organization.</p> <p>To help students understand the basic structure and roles within an organization by comparing it to how a family/home functions.</p>	<p>Activity Title: "Our Home as an Organization"</p> <ul style="list-style-type: none"> • Organizational Chart Creation: • Students sit with their parents and list all family members. • Identify roles and responsibilities (e.g., who manages finances, cooking, cleaning, homework, etc.). • Create a family organizational chart showing who is responsible for what — similar to an org chart in a company. 	Psychology Textbook



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

		<ul style="list-style-type: none"> • Add departments if needed (e.g., Finance – Dad; HR – Mom; Maintenance – Older sibling; Learning & Development – Student). • Reflection Questions (<i>To be discussed together</i>): • How does assigning roles help the home run smoothly? • What happens if someone doesn't do their part? • How is this similar to how companies work? 	
Physics	<p>Circular Motion</p> <ul style="list-style-type: none"> • To understand the motion in a circle • To analyze the kinematics of uniform circular motion <p>Centripetal acceleration and centripetal force.</p> <p>Oscillations</p> <ul style="list-style-type: none"> • To describe simple examples of free oscillations • To investigate the motion of an oscillator using 	<ul style="list-style-type: none"> • Some theme park rides involve rotation in a vertical circle. Investigate on how a person on such a ride must have a resultant force. • Research on how the centripetal force is provided in a child on a playground roundabout, a passenger in a car going round a corner. • Experiment with a motion sensor placed under a bouncing mass on a spring. Displacement, velocity and acceleration graphs can be produced and analysed. (Experiment with a tethered trolley and ticker tape. Produce a graph and analyse the motion for the first half of an oscillation • Experiments to find g using a simple pendulum, or to determine the stiffness of a spring from an 	<p>www.cie.org.uk</p> <p>www.islandphysics.com</p> <p>http://www.physicsclassroom.com/mmedia/circmot/ucm.cfm</p> <p>http://www.tap.iop.org/mechanics/circular/224/page_46476.html</p> <p>http://znotes.org/a2-physics/</p>



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<p>experimental and graphical methods</p> <ul style="list-style-type: none">• To understand and use the terms amplitude, period, frequency, angular frequency and phase difference and express the period in terms of both frequency and angular frequency <p>Electric Field</p> <ul style="list-style-type: none">• To understand the force between two point charges in free space or air.• To understand field strength of a point charge in free space or air• To define potential at a point in terms of the work done in bringing unit	<p>oscillating mass-spring system. (Analyse the graph as sinusoidal and revise the idea of the relationship between $\sin \theta$ and θ</p> <ul style="list-style-type: none">• Recognize the analogy between certain qualitative and quantitative aspects of gravitational field and electric field.	<p>https://www.physicsclassroom.com/class/estatics/Lesson-3/Coulomb-s-Law</p> <p>https://www.khanacademy.org/test-prep/mcat/physical-processes/electrostatics-1/a/electric-potential</p>
--	---	--	---



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	positive charge from infinity to the point.		
Sociology	Education and society - Theories about the role of education Functionalist views about how education contributes to value consensus and social solidarity.	Activity: Learners compile a list of the requirements of a typical modern economy to contribute to social solidarity in relation to education. Discuss with the learners how far the education system (in general or in a particular society) helps to fulfil these economic requirements for a trained, skilled, diligent and adaptable workforce. Relate the discussion back to particular sociological studies and functionalist theories of education.	Textbook
English Language	<ul style="list-style-type: none"> To be introduced to the syllabus and expectations of English Language. To compare and contrast texts from varied sources and forms. 	<ul style="list-style-type: none"> Read the syllabus to be thorough with the contents and criteria of 9093/32 and 9093/42. Research and familiarise themselves on theories with regards to Language Acquisition and English as a Global Language etc. Review the learner guide to have a better understanding of the analysis and writing expectations. 	https://www.cambridgeinternational.org/Images/635901-2024-2026-syllabus.pdf https://5steps.academy/wp-content/uploads/2021/08/9093_Learner_Guide_for_examination_from_2021.pdf
Information Technology	Discuss the different stages of project management from project conception to project close	Support your child in planning a family event . Use this real-life scenario to help them understand the stages of project management:	Teach-ICT Cambridge International Education



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

	<ul style="list-style-type: none">• Articulate the role and responsibilities of project managers and recognize the importance of effective communication and collaboration in project management• Able to apply project management principles to analyze a real-world scenario and develop a basic project plan system specification and design specification• identify a flow of data through a system and create a data flow diagram (DFD) and a system flowchart• design and evaluate data collection forms and screen layouts• design and evaluate validation routines• create a data dictionary for a given situation evaluate suitable hardware and software for a new system <p>Practical: Introduction to Web programming</p>	<ul style="list-style-type: none">• Project Conception: What is the event? Why are we planning it?• Planning: What do we need? (location, food, transport, budget)• Execution: Who will do what and when?• Monitoring: How do we ensure everything goes to plan?• Closure: How did it go? What could we do better next time?	
--	--	---	--



The Winchester School



Aim High Progress Study Programme _ (Year 13) - September 2025

Computer Science	<ul style="list-style-type: none">• Develop the ability to solve real-world problems by designing and implementing appropriate classes.• Write Python programs that demonstrate key OOP principles, including:<ul style="list-style-type: none">○ Class creation○ Inheritance○ Polymorphism○ Aggregation (Containment)	<ul style="list-style-type: none">• Design a database-driven application using Python and Object-Oriented Programming.• The project should include:<ul style="list-style-type: none">○ Class-based structure to manage data and operations○ Use of inheritance and polymorphism to extend functionality○ Aggregation to organize related objects○ File handling to store and retrieve data	OOP programming with Python: www.codecademy.com/courses/python-intermediate-en-WL8e4?curriculum_id=4f89dab3d788890003000096 Object diagram notes: http://en.wikipedia.org/wiki/Object_diagram
------------------	--	---	---