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Aim High Progress Study Programme _ (Year 12) January 2026

The effect of fiscal Subject	Focus	Activities	Useful website
Accounting	<ul style="list-style-type: none">• To analyse the structure of limited companies and the sources of raising capital.• To describe the type of businesses that would use of unit, job and batch costing system.• To apply costing concepts to make business decisions and recommendations.	<ul style="list-style-type: none">• Prepare a sway presentation analyzing the structure of limited companies which should include the following –<ul style="list-style-type: none">➤ Features of limited companies➤ Share capital - meaning of and accounting for➤ Capital and revenue reserves➤ Loan capital➤ Preparation of internal final accounts and balance sheets of limited companies.• Present a write up on type of businesses that would use of unit, job and batch costing system. <p>OR</p> <ul style="list-style-type: none">• Prepare a Ted Ed Flipped Lesson on the topic.	<p>www.myaccountinglab.com, www.bized.co.uk www.cie.org.uk, http://www.accounting-world.com/ https://www.investopedia.com/ https://study.com/search/text/academy.html?q=accounting#/topresults/accounting</p>
Arabic	<p>أراك عصي الدمع-TOPIC</p> <p>Learning objectives:</p> <p>أن يحدد الطالب الفكرة الرئيسة والأفكار الفرعية.</p>	<p>اقرأ الأبيات الشعرية الآتية واستخرج منها مواطن الجمال</p> <p>حدد الفكرة الرئيسة والأفكار الفرعية</p>	<p>https://seraj-uae.com/file/3839/</p>



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	<p>أن يحلل الطالب النص تحليلًا أدبيًا.</p> <p>TOPIC</p> <p>البدل</p> <p>Learning objectives:</p> <p>أن يتعرف الطالب أنواع البدل.</p> <p>* أن يعرب الطالب البدل.</p> <p>أن يوظف الطالب البدل في مواقف حياتية</p>	<p>يحلل النص تحليلًا أدبيًا.</p> <p>أجب عن الكويز</p> <p>استمع إلى الفيديو التالي ثم حدد البدل وأنواعه</p> <p>أجب عن الكويز</p> <p>اقرأ النصوص التالية ثم عين البدل والمبدل منه</p> <p>اقرأ الأبيات الشعرية الآتية واستخرج منها البدل والمبدل منه</p>	<p>https://www.youtube.com/watch?v=u6_Z5GJYr2A</p>
Islamic Studies Arabs	<p>TOPIC: الاقتداء برسول الله، سورة الأحزاب (21-27) أقسام الحديث الشريف (الصحيح – الحسن – الضعيف)</p> <p>Learning objectives:</p> <p>أتلو الآيات مع مراعاة أحكام التلاوة-1.</p>	<p>نشاط جماعي: بالتعاون مع مجموعتك: ابحث وتأمل آيات سورة الأحزاب (21-27)</p> <p>استنتج من الآيات مجالات الاقتداء برسول الله</p> <p>استنتج من الآيات والأحاديث مجالات الاقتداء برسول الله. وأثر القدوة الحسنة على الفرد والمجتمع. .</p>	<p>https://serai-uae.com/file/415/</p> <p>https://ar.wikipedia.org/wiki/%D8%B9%D9%84%D9%85%D9%85%D8%B5%D8%B7%D9%84%D8%AD_%D8%A7%D9%84%D8%AD%D8%AF%D9%8A%D8%AB</p>



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	<p>2- أفسر مفردات الآيات وأبين المعنى -الإجمالي لها 3- أستنتج مجالات الاقتداء برسول الله- 1- أحدد أقسام الحديث الشريف ومعناها- 2- أوضح الفرق بين الحديث الصحيح -والحسن والضعيف 3- أبين أخطار نشر الحديث الموضوع على -الفرد والمجتمع</p>	<p>نشاط جماعي ما لفرق بين الطاعة والتأسي والإتباع مع بيان أمثلة لمن يجب له كل مصطلح مما سبق بينت الآيات نتيجة المعركة والنتائج التي خرج بها المؤمنون والأحزاب من المشركين. وضح ذلك مع الشرح والدليل.</p> <p>نشاط جماعي (: ابحث عن أقسام الحديث الشريف والفرق بينها من حيث التعريف والسند والرواة ما الفرق بين الحديث الصحيح والضعيف من حيث اتصال السند وعدل الروي وضبطه؟.</p> <p>نشاط جماعي (: وضح مع التعليل أخطار نشر الأحاديث الموضوع على الفرد والمجتمع.</p>	<p>https://uae-school.com/archives/17731 https://mawdoo3.com/%D8%A3%D9%86%D9%88%D8%A7%D8%B9_%D8%A7%D9%84%D8%AD%D8%AF%D9%8A%D8%AB https://shamela.ws/book/9987/257</p>
Islamic for Non-Arabs	<p>STEADFASTNESS & TAWAKKUL _ To elucidate the significance of Tawakul To analyze the consequences of not remaining steadfast during challenges. CONSULTATION IN ISLAM, - To explicate the significance of Shura'</p>	<p>Search and write down briefly that <i>Tawakul</i> is not passive dependence, but active effort with full trust in Allah's plan.</p> <p>Research about the importance of consultation and explore how <i>Shuraa</i> guided major decisions in Islamic history and why it remains vital in leadership today.</p>	<p>https://www.noorulislam.org.uk/understanding-tawakkul/ https://hadithoftheday.com/the-need-for-consultation-mushawara/</p>



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	- To analyze the affects of shuraa on our decisions.		
Business Studies	<p>Topic – Management</p> <p>To critically evaluate the role of managers using Mintzberg and Henri Fayol’s management functions.</p>	<p>Research management by interviewing a local manager (parent, relative, friend, etc.), or by doing equivalent internet research. Learners to find out what the manager does to carry out the following management functions:</p> <ul style="list-style-type: none"> • setting objectives and planning • organizing resources • directing and motivating staff • coordinating activities • controlling and measuring performance. <p>Present your findings in the form of a Report or Sway Presentation.</p>	<p>https://www.savemyexams.com/a-level/business/cie/23/revison-notes/human-resource-management/management/management-functions/</p>
Biology	<p>Transport in Plants</p> <ul style="list-style-type: none"> • Elaborate the pathways and explain symplastic pathway and apoplastic pathway and Casparian strip) 	<ul style="list-style-type: none"> • Prepare 10 Kahoot Questions on the topic of transport in Plants on Kahoot. • Construct a summary table of xylem vessel element structure linked to an explanation of function (this may be done after G(g)and (h) have been taught). 	<p>https://www.youtube.com/watch?v=B5gGwASEpaY</p> <p>http://www.microscopy-uk.org.uk/mag/artmar00/wa termvt.html</p>



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	<ul style="list-style-type: none">• Justify that the term transpiration is an inevitable consequence of gas exchange in plants• Explore the factors that affect transpiration rate using leaf impressions, epidermal peels, and grids for determining surface area• State that assimilates, such as sucrose and amino acids, move between sources (e.g. leaves and storage organs) and sinks. <p><u>Transport in Mammals</u></p>	<p>Work out which way water will flow to and from cells / environments with given water potentials (no calculations of water potential are expected).</p> <ul style="list-style-type: none">• Research, (apoplast, symplast and vacuolar) and the role of the endodermis and Casparian strip, by giving a brief written / diagrammatic summary of findings.• Justify and explain why transpiration is inevitable, and list the advantages of transpiration.• Diagrammatically explain the structure of heart, highlighting the differences in chambers.• Using Bloom's taxonomy to create different level questions on Transport in mammals.• Make plan diagrams of the structure of arteries, veins and capillaries using photomicrographs, showing the distribution of various tissues	<p>http://www.mhhe.com/biosci/pae/botany/histology/html/memtrans.htm</p> <p>http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/X/Xylem.html</p> <p>https://alevelnotes.com/notes/biology/exchange-and-</p>
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	<ul style="list-style-type: none">• Explain the relationship between the structure and function of arteries, veins and capillaries.• Describe the role of haemoglobin in carrying oxygen and carbon dioxide with reference to the role of carbonic anhydrase, the• formation of haemoglobin acid and carbaminohaemoglobin		<p>transport/transport-in-animals</p> <p>https://alevelnotes.com/notes/biology/exchange-and-transport/transport-in-animals</p> <p>https://alevelnotes.com/notes/biology/exchange-and-transport/transport-in-animals</p>
Chemistry	<p>GROUP 17:</p> <ul style="list-style-type: none">• To explain the trend in volatility of chlorine, bromine, and iodine.• To describe the relative reactivity of the elements as oxidizing agents• To describe the relative thermal stabilities of the hydrides in terms of bond energies• To describe the reactions of halide ions, chlorine	<ul style="list-style-type: none">• Write the chemical equations of group 17 elements along with the observations• Prepare an Infographic poster on the concept of disproportionation• Give some real life applications for the uses of halogens	<p>https://www.chemguide.co.uk/inorganic/group7/properties.html</p> <p>https://edu.rsc.org/resources/reactions-of-halogens-as-</p>



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	<ul style="list-style-type: none">To describe the industrial importance of halogens and their compounds <p>REDOX REACTIONS:</p> <ul style="list-style-type: none">To calculate oxidation numbers of elements in compounds and ions.To describe and explain redox processes in terms of electron transfer and changes in oxidation numberTo use changes in oxidation numbers to help balance chemical equations. <p>HALOGENOALKANES:</p> <ul style="list-style-type: none">To explain the chemistry of halogenoalkanes as exemplified by:	<ul style="list-style-type: none">Write the chemical equations of group 17 elements along with the observationsPrepare an Infographic poster on the concept of disproportionationGive some real life applications for the uses of halogensCreate a checklist for determining the oxidation number of elements in compounds.Balancing chemical equations using change in oxidation number.Writing half-equations for species oxidised and species reduced.Give real life applications of redox reactions.Create a mind map or table of reactions of halogenoalkanes, including the equations and conditions for each.Investigate the kinetics of SN1 and SN2 reactions.	<p>aqueous-solutions/733.article</p> <p>https://www.chemguide.co.uk/inorganic/group7/halogenoalkanes/nsasoas.html</p> <p>https://www.chemguide.co.uk/inorganic/group7/halideions.html</p> <p>https://www.chemguide.co.uk/inorganic/group7/properties.html</p> <p>https://edu.rsc.org/resources/reactions-of-halogens-as-aqueous-solutions/733.article</p> <p>https://www.chemguide.co.uk/inorganic/group7/halogenoalkanes/nsasoas.html</p>
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	<p>the following nucleophilic substitution reactions :</p> <p>2) hydrolysis, formation of nitriles, formation of primary amines by reaction with ammonia</p> <p>2) the elimination of hydrogen bromide from 2-bromopropane</p> <ul style="list-style-type: none">• To describe the SN1 and SN2 mechanisms of nucleophilic substitution in halogenoalkanes including the inductive effects of alkyl groups• To explain that primary halogenoalkanes tend• to react via the SN2 mechanism; tertiary halogenoalkanes via the SN1 mechanism and secondary halogenoalkanes by a mixture of the two, depending on structure• To interpret the different reactivities of halogenoalkanes• To recognise the concern about the effect of chlorofluoroalkanes on the ozone layer.	<ul style="list-style-type: none">• Solve problems based on equations, to<ul style="list-style-type: none">- predict a mechanism, SN1 or SN2- justify their choice, explaining why it's SN1 or SN2- describe the mechanisms with curly arrows etc.• To investigate practically the speed that the silver halide precipitates appear when halogenoalkanes are put into ethanolic aqueous silver nitrate, followed by determining the bond energies of the carbon-halogen bond to explain their observations.• Create an infographic poster to spread awareness about the effect of chlorofluoroalkanes on the ozone layer.	<p>https://www.chemguide.co.uk/inorganic/group7/halideions.html</p> <p>http://molview.org/</p> <p>http://www.docbrown.info/page06/OrgMechs2.htm</p> <p>https://www.ocr.org.uk/Images/163774-explaining-observations-activity-teacher-instructions.pdf</p>
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	<p>Equilibrium:</p> <ul style="list-style-type: none">• To state Le Chatelier's principle and apply it to deduce the effect of changes in temperature, concentration or pressure on a system at equilibrium.• To state whether changes in temperature, concentration or pressure or the presence of a catalyst affect the value of the equilibrium constant• To deduce the expressions for equilibrium constants in terms of concentration K_c and partial pressure, K_p.• To calculate the K_c and K_p. <p>To describe the Bronsted-Lowry theory of acids and bases.</p>	<ul style="list-style-type: none">• Make a mind map to show the effect of changes in temperature, concentration and pressure on a system at equilibrium• Solve complex questions including numerical based on calculating equilibrium constant K_c and K_p	<p>http://www.a-levelchemistry.co.uk/42-equilibria.html</p> <p>http://www.chem1.com/acad/webtext/chemeg/Eq-01.html</p> <p>http://www.ocr.org.uk/Images/261544-equilibrium-delivery-guide.pdf</p> <p>https://www.chemguide.co.uk/physical/equilibmenu.html</p>
Economics	<ul style="list-style-type: none">• To analyze how monetary, supply-side, and protectionist policies influence the stability of a country's current account and evaluate their effectiveness in achieving external balance.	<ul style="list-style-type: none">• Use an AD/AS diagram to show how higher interest rates reduce AD → lower imports → improved current account. Discuss exchange rate appreciation/depreciation channel (higher interest rates → stronger currency → exports less competitive).	<p>https://www.tutor2u.net/economics</p> <p>https://www.economicsonline.co.uk/</p> <p>https://www.imf.org/en/Data</p>



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		<ul style="list-style-type: none"> • Show tariff diagram (domestic supply and demand) and explain how it reduces imports but may cause retaliation and inefficiency. • Explain with examples: investment in education, infrastructure, and innovation → improved export competitiveness and import substitution in the long run. Use production possibility curve (PPC) to show capacity improvement. 	
<p>Mathematics <u>Pure Mathematics 1</u></p>	<p><u>Differentiation</u></p> <ul style="list-style-type: none"> • To calculate the gradient at a point on a curve, given its equation • To find the equations of the tangent and normal to a curve at a point. • To interpret a derivative as a rate of change of one variable with respect to another. • To apply derivatives in solving real – world problems • To use second derivatives to distinguish minimum and maximum points 	<p>Make a list of derivatives of simple functions</p> <p>Research on the applications of differentiation.</p> <p>How do you find maximum and minimum points using differentiation?</p> <p>Make notes to summarize learning that includes solved examples</p> <p>Apply the basic integration rules in finding the function, given it's derivative. Can you get more than one function when you integrate? Why?</p> <p>Research on the significance of constant of integration.</p>	<p>https://www.bbc.com/bitesize/guides/zyj77ty/revision/1</p> <p>https://revisionmaths.com/advanced-level-maths-revision/pure-maths/calculus/differentiation</p> <p>https://www.britannica.com/science/analysis-mathematics/Calculus#ref731796</p> <p>https://www.intmath.com/applications-differentiation/applications-of-differentiation-intro.php</p>



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	<p>Integration:</p> <ul style="list-style-type: none"> • To understand the term indefinite integral and the need to add the constant of integration. • To integrate functions which can be expressed as sums of powers of x • To evaluate a definite integral • To use definite integrals to find area under the curve • To find volume of a revolution about either X or Y axis. 	<p>Research on the real life applications of integration.</p> <p>Make notes to summarize learning that includes solved examples.</p>	<p>http://www.statistica.com.au/differentiation_max_and_min.html</p> <p>https://www.mathsisfun.com/calculus/integration-introduction.html</p> <p>https://www.bbc.com/bitesize/guides/zgxttfr/revision/1</p> <p>https://revisionmaths.com/advanced-level-maths-revision/pure-maths/calculus/integration</p>
<p>Art & Design</p>	<p>Explore and develop coursework based on a theme, producing a portfolio of work leading to a final Outcome.</p>	<p>Explored and experimented with different media, techniques and processes</p> <ul style="list-style-type: none"> • carried out in-depth research into artists, designers and cultural influences to inform the development of ideas 	<p>www.studentartguide.com</p>



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		<ul style="list-style-type: none"> selected, reviewed and refined their work throughout the whole process to plan and produce a personal and coherent outcome. 	
Statistics 1	<p>Topic: <u>Discrete random variables</u></p> <ul style="list-style-type: none"> use formulae for calculating probabilities and expectation of the geometric, expectation and variance of binomial distributions. <p><u>Normal Distribution</u></p> <ul style="list-style-type: none"> Understand the use of the normal distribution to model a continuous random variable, and use normal distribution tables. Be able to evaluate probabilities and solve problems involving normal distribution. Recall conditions under which the normal distribution can be used as an approximation to the binomial distribution, and use this approximation, with a 	<p>Compare and contrast Binomial distribution and Geometric distribution.</p> <p>Research and summarise findings with examples on real life application of Normal distribution.</p>	<p>https://www.khanacademy.org/math/ap-statistics/random-variables-ap/geometric-random-variable/e/geometric-distributions</p> <p>https://www.statisticshowto.com/probability-and-statistics/binomial-theorem/binomial-distribution-formula/</p> <p>https://revisionmaths.com/advanced-level-maths-revision/statistics/normal-distribution#google_vignette</p>



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	continuity correction, in solving problems.		
Computer science	Applying file handling concepts to store and retrieve processed data.	<ul style="list-style-type: none"> • Basic String Analysis • Take a mixed input (letters and numbers). • Count vowels, consonants, and digits. • Display results on the console. • File Handling Task • Read a sentence from a text file. • Separate vowels, consonants, and numbers into three lists. • Write the results into an output file. • Extension • Calculate frequency of each vowel and consonant. • Sort and display them in ascending order. • Challenge • Create a program that ignores spaces and special characters. • Add error handling for empty files. 	<ul style="list-style-type: none"> • W3Schools – Python Strings • W3Schools – File Handling • GeeksforGeeks – String Operations • Programiz – Python File I/O
Psychology	Learning Approach Assumptions for learning approach	Students explain the basic concepts of learning to their parents: <ul style="list-style-type: none"> • Classical Conditioning: Learning by association. 	Cambridge international AS/A level Psychology



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		<ul style="list-style-type: none">• Operant Conditioning: Learning through rewards and punishments.• Social Learning Theory: Learning by observing and imitating others. <p>Task Instructions</p> <p>Part 1: Association Game (Classical Conditioning)</p> <ul style="list-style-type: none">• Identify something at home that creates a routine (e.g., a bell signaling dinner).• Parents and children create a new cue, like clapping hands before dinner.• Repeat for 2-3 days and see if the child starts associating the cue with the activity. <p>Part 2: Behavior Rewards (Operant Conditioning)</p> <ul style="list-style-type: none">• Choose a behavior to encourage (e.g., cleaning up toys).• Parents set up a reward system, like giving a sticker for every day the behavior is done.• Reflect on how rewards influence the behavior. <p>Part 3: Role Model Imitation (Social Learning Theory)</p> <ul style="list-style-type: none">• Parents and children identify a skill to teach (e.g., tying shoes or drawing).• Parents model the skill step-by-step, encouraging the child to imitate.• Discuss whether observing made the learning easier. <p>Reflection Questions</p>	
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		<ul style="list-style-type: none"> • Students will write down their observations: • How did associations (classical conditioning) work at home? • Did rewards/punishments (operant conditioning) affect behavior? • Was observing parents helpful in learning new skills? 	
Sociology	Changing Identities	How do changing class, gender, ethnic, and age identities help us understand the transitions from modern to postmodern societies.	Sociology Textbook
Physics	<p>Waves</p> <ul style="list-style-type: none"> • To understand that energy is transferred by a progressive wave. • To analyse and interpret graphical representations of transverse and longitudinal waves. • To know the experimental arrangement of Young's double slit experiment. 	<ul style="list-style-type: none"> • Describe how to measure the frequency of sound waves using cathode ray oscilloscope • Compare the diffraction pattern of water waves and light waves. • State the properties of electromagnetic waves. • In Young double-slit experiment, state the effect of <ul style="list-style-type: none"> -Using slits of narrower width (but the same separation) -Using slits with smaller separation but of same width. 	<p>www.acoustics.salford.ac.uk/feschools/waves/contents.php</p> <p>https://www.islandphysics.com/waves-and-sound.html</p> <p>http://www.physicsclassroom.com/class/light/Lesson-3/Young-s-Experiment</p>



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English language	Discursive/ Argumentative writing	<ul style="list-style-type: none">• Research and discuss on topics. a few examples are: Is a lottery a good idea? Do curfews keep teens out of trouble? Are law enforcement cameras an invasion of privacy? Are we too dependent on computers? Then give yourself 1 hour to write on one of the topics.	http://learn.lexiconic.net/essayspers.htm
Travel and tourism	To analyze the types of sustainability and reasons for the growth in sustainable tourism using real world examples.	<p>Explain the Reasons for Growth in Sustainable Tourism:</p> <ul style="list-style-type: none">• Increasing environmental awareness among travelers.• Government policies promoting eco-friendly tourism.• Demand for authentic, community-based experiences.• Corporate responsibility and green certifications in hospitality. <p>Using Real-World Examples:</p> <ul style="list-style-type: none">• Costa Rica: Ecotourism and conservation-focused resorts.	www.youth-hostel.si/en/sustainable-tourism?linksubid=PPC-ANG_Travel_Tips&gclid=CjwKCAjwn8SLBhAyEiwAHNTJbUAb9PRCfRCOLKsMQMHUbpGXuP4nAcG2AtIJSUw1xNlIdSF76cTRShoCFtYQAvD_BwE



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| | | <ul style="list-style-type: none">• Bhutan: High-value, low-impact tourism policy.• New Zealand: Sustainable adventure tourism practices.• Iceland: Renewable energy use and eco-lodges. | |
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