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Subject	Focus	Activities	Useful website
Accounting	• To control costs and evaluate performance by comparing actual expenses against predetermined standard costs for materials, labor, and overheads. To develop independent problem-solving skills on standard costing	• Calculate and analyze cost variances by comparing actual costs with standard costs for materials and labor, then identify favorable or adverse variances and explain possible reasons. • Revise all the topics covered so far in the A level syllabus. • Revise the topic of budgeting and practice questions on the same. Practice question from past paper 2016 – 2026 (Feb/March and May/June series)	www.myaccountinglab.com, www.bized.co.uk www.tutor2u.net www.cie.org.uk,

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Arabic	قصيدة البركة للبحتري قصة ذكريات وأماني ل مظفر الحاج كتابة نص أدبي الأهداف أن يحلل الطالب الوصف في القصيدة أن يستخرج مظاهر البلاغة في الأبيات أن يحلل النص في سياقه اللغوي والتاريخي أن يتتبع تقنية السرد والوصف في القصة أن يحلل العناصر الفنية للقصة أن يكتب نصًا أدبيًا من إبداعية	السيد ولي الأمر، ساعد ابنك في شرح الأبيات وتفسير المفردات الجديدة في السياق الموجود اختيار بعض المفردات وأدخلها في سياق لغوي جديد كتابة وصف للبركة بأسلوب نثري حسب فهم الطالب من القصيدة تحليل الفكرة التي ركز عليها الكاتب في النص استخراج التقنيات الفنية من النص مثل السرد والوصف والحوار مراجعة المسودة الأولي للنص الأدبي المكتوب	كيف اكتب مقال ادبي - موضوع - ذكريات وأمانيّ - مظفر الحاج مظفر القصة القصيرة حل درس البركة البحتري للصف الثاني عشر - موقع حلك
Islamic for Arabs	**(عنوان الدرس: (مقاصد التشريع الخمسة** **:بنهاية الدرس يكون الطالب قادرًا على** **- ذكر الضرورات الخمس التي جاءت الشريعة لحفظها. مع الاستدلال بآيات وأحاديث على** **مقاصد التشريع مع الاستدلال والمقارنة بين** **:مقاصد التشريع الخمسة** **1.حفظ الدين** **2.حفظ النفس** **3.حفظ العقل** **4.حفظ النسل (العِرض)**	**ساعد طفلك أن يعرّف مصطلح "مقاصد الشريعة الإسلامية" بأسلوبك الخاص،** **وبيّن كيف يُظهر هذا المفهوم رحمة الإسلام وعدله.** **شارك طفلك أن يحدّد المجالات التي تتحقق فيها الضرورات الخمس،** **بالتعاون مع طفلك اختر مجالًا واحدًا للضرورات الخمس وناقش مع طفلك آثاره على المجتمع إذا لم يُصَن.**	**https://www.albayan.ae/** **https://www.awqaf.gov.ae/ar** **https://moraledu.moe.gov.ae/** **https://seraj-uae.com/**

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	حفظ المال.5 .	**ناقش مع طفلك العلاقة بين مقاصد التشريع ومبدأ الوسطية في الإسلام، واستشهد بمثال من التشريعات التي تراعي الاعتدال دون إفراط أو تفريط.** **ساعد طفلك أن يستخرج من القرآن الكريم آية تدل على حفظ الدين وبيّن دلالتها، واذكر مثالًا عمليًا من واقع الإمارات لتحقيق هذا المقصد في المجتمع.**	
Islamic for non-Arabs	TOPICS: PROHIBITED SALES CREATIVE THINKING IN ISLAM • **To analyze** the types of sales prohibited in Islam • **To elucidate** how Islamic principles can guide Muslims in making ethical buying and selling decisions. • **To understand** how Islam encourages observation, reflection, questioning, and the	Reflect on a situation where a seller hides important information about a product or gives false information to make a profit. Explain why this is against Islamic principles and how a Muslim seller should act instead. Reflect on one problem you face at school, home, or in your community. Think of a creative solution and explain how you can ensure that your idea benefits others and follows Islamic values.	https://4d5206ee.isolation.zscaler.com/profile/e4b99c52-74cc-4915-b2f3-70d8cba15332/zia-session/?controls_id=6e8c4504-f586-4b49-ac18-1e6e04ed9f94&region=bom&tenant=ade914219ca7&user=3d1844c563bf9a1cb955920c93524b25e179540cf9d4b8c39fc25ecd76375703&original_url=https%3A%2F%2Fwww.tahalearn.com%2Fen%2Fcourses%2Ffiqh-muamalat%2Flessons%2Fmua

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	use of intellect to discover solutions and learn from Allah's creation. • **To apply** creative and critical thinking to solve everyday problems while remaining guided by Islamic values and ethical principles.		malat-004&key=sh-1&hmac=9b7a200bfd939ec9a2e09913cf5f3013057209b9645dcbec48ba7d385c95179d
Art and Design	AO1 and AO2	• Students should explore directly observed objects or subjects or should relate to a theme or concept. • To record visual and/or other appropriate research to show clear evidence of the development of their ideas.	www.studentartguide.com

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Business	✓ To evaluate the development of marketing strategies that are focused towards achieving specific marketing objectives	Task - Evaluate the suitable marketing strategies for the success of the business. Students choose a real company campaign (e.g., Nike's "Just Do It," Apple's product launch strategies, Spotify's personalised ads). Students are required to prepare a report which includes: • The marketing objective behind the campaign • The marketing strategy used ▪ Whether or not the strategy was successful and why	www.bized.co.uk www.tutor2u.net
Biology	**Inherited Changes** • Solve genetics problems involving monohybrid and dihybrid crosses, including those involving autosomal linkage, codominance,	• Using the symbols A and a for the alleles of a gene located on one homologous pair, and B and b for the other homologous pair,	• http://www.contexo.info/DNA_Basics/Meiosis.htm

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	multiple alleles and gene interactions • Solve Problems using genetic diagrams involving test crosses **Homeostasis:** • Relate the detailed structure of the Bowman's capsule and proximal convoluted tubule to their functions in the formation of urine. • Describe the roles of the hypothalamus, posterior pituitary gland, antidiuretic hormone (ADH), aquaporins and collecting ducts in osmoregulation. • Describe the principles of cell signalling using the example of the control of blood glucose concentration by glucagon.	draw diagrams to show how independent assortment leads to genetic variation. • Outline the different stages of Meiosis involved in genetic variation. • Create a model of a Nephron and Label it correctly. • Create a flow chart that illustrates the roles and interactions of each component (hypothalamus, posterior pituitary gland, antidiuretic hormone, ADH, aquaporins and collecting ducts) in maintaining water balance in the body. • Prepare a presentation on the principles of cell signalling using the example of glucagon.	• https://cognitoedu.org/coursesubtopic/b3-alevel-aqa_pagdDbnC • https://www.khanacademy.org/science/biology/human-biology/kidney-nephron/v/the-kidney-and-nephron • https://studymind.co.uk/notes/anti-diuretic-hormone/ • https://www.open.edu/openlearn/science-maths-technology/cell-signalling/content-section-4.1

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Economics	Understand how exchange rates are measured, determined, and adjusted under different systems, including fixed, managed, and floating regimes. analyse how changes in exchange rates affect a country's external balance using the Marshall–Lerner condition and the J-curve effect.	• Calculate the real exchange rate and trade-weighted exchange rate using data on nominal exchange rates, inflation rates, and trade weights. • Graphically represent how exchange rates are determined under fixed and floating systems, and illustrate the effects of a revaluation and devaluation. • Analyse the impact of a currency depreciation on the current account by applying the Marshall–Lerner condition and illustrating the J-curve. • Research a real-world case study to evaluate how a country's exchange rate policy has influenced its exports, inflation, and balance of payments over time.	https://www.tutor2u.net/economics/reference/fixed-floating-and-managed-exchange-rates https://www.tutor2u.net/economics/reference/the-marshall-lerner-condition-and-the-j-curve-effect https://tradingeconomics.com/country-list/exchange-rate
English Language	Analyse how language has changed over time.	• Take an extract from Hard Times written by Charles Dickens. • Analyse the graphology, grammar, semantics and lexis in the given extract.	https://englilearn.wordpress.com/2025/09/17/a-level-english-9093-paper-3-explained-language-change-child-language-acquisition/

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		• Also compare all three with modern language and evaluate how language has changed.	
Chemistry	**<u>Analytical Techniques</u>** • To explain and use the terms Rf value in thin layer chromatography and retention time in gas/liquid chromatography from chromatograms. • To interpret gas/liquid chromatograms in terms of the percentage composition of a mixture. • To analyze the H-NMR spectrum of simple molecule in High as well as low resolution. • To analyze a carbon-13 NMR spectrum of a simple molecule to deduce: (i) the different environments of the carbon atoms present	• Using Mind maps prepare a summary of various reactions of each type of functional group. • Separation of the specific amino acids from a given mixture of them. • Calculate the areas of the triangular peaks to estimate the proportion of components in the mixture • Practice analysing the NMR spectra of various molecules. • Work out the sub-atomic particles present in a deuterium atom. • Interpret the splitting pattern of D2O. • Visit to see an NMR spectrometer in action and observe what sort of spectra it produces.	• http://alevelchem.com/aqa_a_level_chemistry/unit3.4/s3411/05.htm • http://www.docbrown.info/page04/4_71atomMSintro.htm • http://alevelchem.com/ • http://www.rsc.org/learn-chemistry • www.s-cool.co.uk • www.teachable.net http://www.rsc.org/education • http://www.rsc.org/learnchemistry/

	(ii) the possible structures for the molecule (iii) the different types of proton present using chemical shift values (iv) the relative numbers of each type of proton present from relative peak areas **Chemical Energetics (Entropy & Gibbs Free Energy)** • To predict and justify the sign of entropy changes • To measure the entropy changes for a reaction using the standard entropy values • To suggest the feasibility of a reaction using Gibbs free energy • To explain the effect of temperature on the spontaneity of a reaction **Electrochemistry:**	• Compare the entropy changes for various states of matter to justify the relationship between entropy and the number of microstates • Prepare a power-point presentation on the significance of Gibbs free energy • Calculate entropy changes using standard entropy values and relate Gibbs free energy to entropy and enthalpy • Research and write an article on the effect of temperature on feasibility of a reaction.	• http://www.rsc.org/learnchemistry/ • www.teachable.net http://study.com/academy/lesson/the-relationship-between-enthalpy-h-free-energy-g-and-entropy-s.html https://chemed.chem.purdue.edu/genchem/topicreview/bp/ch21/gibbs.php https://byjus.com/questions/how-is-gibbs-free-energy-related-to-enthalpy-and-entropy/

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	• To determine the mathematical relationship F = Le and use it in calculations • To outline the working of Standard Hydrogen Electrode (SHE) • To summarise the methods used to measure the standard electrode potentials of: -metals or non-metals in contact with their ions in aqueous solution • To apply the Nernst equation to predict quantitatively how the value of an electrode potential varies with the concentration of the aqueous ion. • To outline the direction of redox reaction using the electrochemical cell value • To understand and use the equation $\Delta G^{\ominus} = -nE^{\ominus}_{cell}F$	• Solve at least five questions making use of F = Le to predict the identity of the products formed during electrolysis • Construct electrochemical cell using Standard Hydrogen Electrode as one of the half cell • Research and prepare a write-up on determining the feasibility of a reaction based upon the electrochemical cell value • Plan an investigation to be conducted in a school laboratory to determine the cell potential under non-standard conditions (use Nernst equation) • Prepare a Power-Point presentation on electrochemical cell value and feasibility of a reaction • Practice interrelating standard Gibbs free change with the electrochemical cell value	https://www.chemguide.co.uk/inorganic/electrolysis/basiccalcs.html https://byjus.com/chemistry/standard-hydrogen-electrode/ http://www.dynamicscience.com.au/tester/solutions1/chemistry/redox/electrochemicalcellfromequan.htm https://chem.libretexts.org/Bookshelves/Introductory_Chemistry/Book%3A_Introductory_Chemistry_(CK-

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			12)/23%3A_Electrochemistry/23.06%3A_Calculating_Standard_Cell_Potentials https://www.chem.tamu.edu/class/fyp/stone/tutorialnotefiles/electro/nernst.htm http://www.docbrown.info/page01/ExIndChem/electrochemistry11.htm
Computer Science	• Understanding the importance of protocols for communication between computers. • Exploring the TCP/IP protocol suite and its layered architecture. • Analyzing various protocols and their specific purposes. • Comparing circuit switching and packet switching, including their benefits and drawbacks.	Research and present on various protocols such as HTTP, FTP, POP3, IMAP, SMTP, and BitTorrent. • Discuss the specific purposes of each protocol, with a focus on how BitTorrent facilitates peer-to-peer file sharing. • Research and present on various protocols such as HTTP, FTP, POP3, IMAP, SMTP, and BitTorrent. • Discuss the specific purposes of each protocol, with a focus on how BitTorrent facilitates peer-to-peer file sharing.	Khan Academy - Internet 101 - Introductory lessons on how the internet works, including protocols and switching.
Mathematics Pure Mathematics	• Recall an appropriate form for expressing rational functions in partial fractions, and carry out the decomposition, in cases	Partial fractions are frequently applied to simplify and solve integrals of rational functions. By decomposing a complex rational function into simpler fractions, integration becomes more manageable. This	**https://revisionmaths.com/advanced-level-maths-revision/pure-maths/algebra/partial-**

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	where the denominator is no more complicated than • – (ax + b)(cx + d)(ex + f) • – (ax + b)(cx + d) ^{2} • – (ax + b)(cx ^{2} + d) • use the expansion of (1 + x) ^{n} , where n is a rational number and magnitude of x< 1.	technique is especially useful when integrating functions involving polynomials of different degrees The importance of the partial fraction decomposition lies in the fact that it provides algorithms for various computations with rational functions, including the explicit computation of antiderivatives, Taylor series expansions, inverse Z-transforms, and inverse Laplace transforms. The Binomial Theorem is used in advanced mathematics and calculating to determine the roots of equations in higher powers. It's also used to prove a lot of important physics and math equations. Weather forecast services, architecture, and cost estimation in engineering projects.	**fractionshttps://www.mathcentre.ac.uk/resources/uploaded/mc-ty-partialfractions-2009-1.pdfhttps://igcsemaths.in/2021/02/24/a-level-mathematics-9709-binomial-expansion-and-rational-functions/https://www.savemyexams.com/a-level/maths_pure-3/cie/20/topic-questions/1-algebra--functions/1-5-general-binomial-expansion/exam-questions/**

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Mechanics	Apply Newton's laws of motion to the linear motion of a particle of constant mass moving under the action of constant forces, which may include friction, tension in an inextensible string and thrust in a connecting rod use the relationship between mass and weight • solve simple problems which may be modelled as the motion of a particle moving vertically or on an inclined plane with constant acceleration solve simple problems which may be modelled as the motion of connected particles.	Research on the real life applications of Newton law The way a jet engine works can be explained by Newton's third law. When the engine expels gas particles at a high speed in the backward direction (action), and in response, the aircraft moves forward (reaction). This concept is not just for aircraft; it also applies to how spacecraft are propelled. Newton's laws of motion play a crucial role in our daily lives and the development of advanced technologies. These principles are everywhere, influencing everything from engineering and sports to our routine activities. By noticing everyday situations, like pushing a shopping cart or launching rockets, we can see how significant Newton's laws are and how they continue to shape our world.	**https://pastpaperpenguin.com/9709-mechanics-1-topical-exam-questions-and-worked-solutions/#google_vignette** **https://rocketrevise.com/a-level-cambridge/cie-a-level-maths-9709/cie-a-level-maths-mechanics/** **https://cambridgepapers.net/a-level-mathematics-9709-mechanics**
Statistics 2	**Continuous random variables** • understand the concept of a continuous random variable, and	Investigate about the properties and use of probability density function and summarise your learning.	https://revisionmaths.com/advanced-level-maths-revision/statistics/continuous-random-variables

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	recall and use properties of a probability density function. • use a probability density function to solve problems involving probabilities, and to calculate the mean and variance of a distribution.		
Sociology	Mass Media • To analyse the impact of new media.	• Give three arguments against the digital optimist view of the impact of the new media on democracy.	http://www.sociology.org.uk/n_media.htm
Psychology	Topic: Leadership and management Learning objective- Will be able to explain and analyse the various models on how leaders and followers interact with each other. Learning Outcome- To evaluate measuring leadership using the Leadership Practices Inventory and the core study Followship (Kelley, 1988).	Students think about how researchers might investigate this aspect of leadership and share ideas. They can create items for a questionnaire on the same and create both open and closed questions as well as some rating scales and revise the strengths and weaknesses of using each type of question.	Textbook https://hbr.org/1988/11/in-praise-of-followers
Physics	**Capacitance**		

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	• Analyse graphs of the variation with time of potential difference, charge and current for a capacitor discharging through a resistor • recall and use $\tau = RC$ for the time constant for a capacitor discharging through a resistor **Ideal Gases** • Solve problems using the equation of state for an ideal gas • Interpret Brownian motion in terms of the movement of molecules • State the assumptions of the kinetic theory of gases • Deduce a relationship between pressure, volume and	• Sketch Voltage-time, Current-time and Charge-time graphs for charging and discharging of a capacitor • State and explain in terms of the kinetic model • Examine what happens to the pressure inside a tyre when more molecules at the same temperature are pumped into the tyre • Explain Boyle's law and applications • State the ideal gas equation and explain kinetic model	• https://www.savemyexams.co.uk/a-level/physics/aqa/17/revision-notes/7-fields--their-consequences/7-7-capacitor-charge--discharge/7-7-1-charge--discharge-graphs/ • https://www.scienceandmathsrevision.co.uk/topic/charging-and-discharging-capacitors/ • http://physicsnet.co.uk/a-level-physics-as-

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	the microscopic properties of the molecules of a gas • relate the kinetic energy of the molecules of a gas to its temperature	• State the relation between temperature and molecular kinetic theory	a2/thermal-physics/thermal-energy/ • http://hyperphysics.phy-astr.gsu.edu/hbase/thermo/firlaw.html • http://www.physics.usyd.edu.au/super/life_sciences/TP/TP-rev-questions.pdf
Travel and Tourism	• To analyse organisations involved in destination management and their roles and priorities	Research two destinations and analyse how Governments, Ministries, or National Tourism Organisations manage tourism by minimising negative impacts and maximising positive impacts. **Evidence Required:** • A report comparing both destinations. • Explanation of the roles of Governments, Ministries, and NTOs.	Source: https://gulfnews.com/business/tourism/uae-to-spend-more-than-300-billion-on-infrastructure-development-by-2030-1.1314180 https://www.visitdubai.com

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		• Analysis of strategies used to manage tourism. • Evaluation of the successes and challenges faced by each destination. Research two destinations and analyse how local and regional organisations contribute to destination management. **Evidence Required:** • A presentation or report on both destinations. • Explanation of the role of local authorities and regional tourism organisations. • Comparison of tourism management approaches. • Evaluation of how effective these organisations are in achieving their tourism objectives.	https://u.ae https://www.det.gov.ae https://www.tourismnewzealand.com https://www.mbie.govt.nz https://www.doc.govt.nz