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Aim High Progress Study Programme _ (Year 12) - October 2025

Subject	Focus	Activities	Useful website
Accounting	To analyse the usefulness of Managerial Accounting in businesses and how it is different from Financial Accounting.	Present a report on the usefulness of Managerial Accounting and the main elements of Managerial Accounting. Or prepare a Ted Ed Flipped Lesson on the topic.	www.myaccountinglab.com , www.bized.co.uk www.tutor2u.net www.cie.org.uk , Accounting Text books
Arabic	لغات العالم الكناية	عمل خريطة ذهنية لأفكار الدرس تحليل أفكار المقال من خلال العمل الجماعي تحليل أسلوب الكاتب استخراج الكناية من الأمثلة توظيف الكناية في فقرة - رسالة - مقال	https://uae-school.com/archives/97887 https://www.google.com/search?q=%D8%A7%D9%84%D9%83%D9%86%D8%A7%D9%8A%D8%A9&sca_esv=d0de567ea38b85be&rlz=
Islamic Studies Arabs	TOPIC: القرآن الكريم والإعجاز العلمي العقل والنقل Learning objectives: بنهاية الدرس يتوقع أن يكون الطالب قادرًا على:	قال رسول الله عن القرآن الكريم: " لا يخلق عن كثرة الرد ولا تنقضي عجائبه " اشرح الحديث مبينا علاقته بالإعجاز العلمي مع الدليل عدد أهمية وفوائد الإعجاز العلمي للقرآن الكريم مع الشرح والدليل من القرآن والسنة قارن بين الحقيقة العلمية والنظرية العلمية من خلال علاقتهما بالإعجاز العلمي	https://www.awqaf.gov.ae/?utm_source=chatgpt.com https://kaheel7.com?utm_source=chatgpt.com https://www.mbrsc.ae?utm_source=chatgpt.com



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<ol style="list-style-type: none">1. يعرّف مفهوم الإعجاز العلمي في القرآن الكريم.2. يفسر بعض الآيات الكونية المتعلقة بالإنسان والطبيعة والكون.3. يربط بين الإشارات القرآنية والاكتشافات العلمية الحديثة.4. يستنتج أثر الإعجاز العلمي في تعزيز الإيمان.5. يعرّف مفهوم العقل والنقل في الإسلام.6. يبيّن دور العقل في فهم النصوص الشرعية.7. يحدد حدود العقل فيما يعجز عن إدراكه.8. يقارن بين الموقف الإسلامي والمذاهب التي اعتمدت على العقل وحده.	<p>للقرآن الكريم.</p> <p>حلّل قوله تعالى: ﴿ولقد خلقنا الإنسان من سلالة من طين﴾ (المؤمنون: 12)،</p> <p>واربطه بالمكتشفات العلمية الحديثة حول تكوين الإنسان</p> <p>ناقش دلالة قوله تعالى: ﴿وكل في فلك يسبحون﴾ (يس: 40)،</p> <p>واربطها باكتشاف حركة الكواكب والأجرام السماوي.</p> <p>وناقش دلالة قوله تعالى: ﴿وكل في فلك يسبحون﴾ (يس: 40)،</p> <p>واربطها باكتشاف حركة الكواكب والأجرام السماوية. اربطه بالمكتشفات العلمية الحديثة حول تكوين الإنسان</p> <p>اشرح مفهوم العقل ودوره في فهم النصوص الشرعية، وناقش العلاقة بين العقل والنقل في الإسلام</p> <p>حلّل كيف يكمل العقل النقل ولا يتعارض معه، واربط ذلك بمثال واقعي من العلوم أو القوانين.</p> <p>ابحث كيف قدّم الإسلام العقل كوسيلة للتفكير والتأمل في الكون، واستشهد بآيات قرآنية.</p>	<p>https://www.i3jaz.com?utm_source=chatgpt.com</p> <p>https://quran.ksu.edu.sa?utm_source=chatgpt.com</p> <p>https://www.alukah.net?utm_source=chatgpt.com</p> <p>https://www.mbrsg.ae?utm_source=chatgpt.com</p>
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<p>Islamic for Non-Arabs</p>	<p>TOPIC: THE ARABIC LANGUAGE & CULTURE FINANCIAL CONTRACTS IN ISLAM</p> <p>Learning objectives:</p> <ul style="list-style-type: none"> - To explicate the Arabic civilization prior to Islam - To define the characteristics of Arab Islamic Culture 	<p>WATCH A DOCUMENTARY ON THE HISTORY OF ARAB CIVILIZATION AND MAKE A COMPARISON OF BETWEEN TODAY'S CULTURE AND ARABIC CULTURE PRIOR TO ISLAM</p> <p>☐</p> <p>☐</p> <p>To elucidate the mutual consent in making - a contract</p> <p>☐ -To analyze the consequences of violating the contract</p>	<p>https://alifarabic.com/arabic-in-relating-islamic-heritage/</p> <p>https://mcca.com.au/understanding-riba-interest-in-islam-a-comprehensive-overview/</p>
<p>Business Studies</p>	<p>Topic – Business Finance</p> <ul style="list-style-type: none"> • To recognise the difference between capital and revenue expenditure and the different needs for finance these create. 	<p>Write a comprehensive report on the following:</p> <ol style="list-style-type: none"> 1. How do changes in interest rates affect the cost of capital for a company? 2. Discuss the impact on investment decisions on the overall financial health of the business. 3. Explain the concept of working capital management and its importance in 	<p>www.tutor2u.net</p> <p>www.dineshbakshi.com</p> <p>www.cie.org.uk</p>



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	<ul style="list-style-type: none">To analyse the importance of capital to a business and how this can be managed.To analyse different sources of long, medium, and short term finance both internal and external.	<p>maintaining the financial health of a company.</p> <p>4. How can companies optimize working capital to improve liquidity, operational efficiency, and profitability?</p>	
Biology	<p><u>Biological molecules:</u></p> <ul style="list-style-type: none">Structure of carbohydrates, lipids and proteins and their roles in living organismStructure of haemoglobin	<ul style="list-style-type: none">Describe the ring forms of α-glucose and β-glucose.Describe the formation of a glycosidic bond by condensation, with reference both to polysaccharides and to disaccharides, including sucroseDescribe the molecular structure of polysaccharides including starch (amylose and amylopectin), glycogen and cellulose and relate these structures to their functions in living organisms.Describe the molecular structure of a triglyceride with reference to the formation of ester bonds and relate the structure of	<ul style="list-style-type: none">https://revisionworld.com/a2-level-level-revision/biology-level-revision/biological-moleculeshttp://www.slideshare.net/mrexham/a-level-biology-biological-molecules



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		<p>triglycerides to their functions in living organisms.</p> <ul style="list-style-type: none">• Describe the structure of an amino acid and the formation and breakage of a peptide bond.• Describe the molecular structure of haemoglobin as an example of a globular protein, and of collagen as an example of a fibrous protein and relate these structures to their functions.	<ul style="list-style-type: none">• http://study.com/academy/lesson/glycosidic-bond-definition-formation-quiz.html• https://getadapt.co.uk/revision-content/biology/a-level-biology-caie?utm_source=chatgpt.com <p>https://bio.libretexts.org/Learning_Objects/Visualizations and Simulations/PhET Simulations?utm_source=chatgpt.com</p>
Chemistry	<u>Chemical Bonding</u> <ul style="list-style-type: none">• Describe the different types of bonding based using 'dot and cross' diagram	Activity: <ul style="list-style-type: none">• Practice drawing dot-and-cross diagrams for ionic compounds as well as covalent compounds	AS Chemistry Foundation Bonding and Structure page (epizy.com)



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	<ul style="list-style-type: none">• Explain the shapes of, and bond angles in molecules using electron-pair repulsion theory• Describe covalent bonding in terms of orbital overlap including the concept of hybridisation• Explain the term bond energy, bond length, and bond polarity• Describe intermolecular forces based on permanent and induced dipoles, hydrogen bonding and metallic bonding <p><u>States of Matter</u></p> <ul style="list-style-type: none">• State the basic assumptions of the kinetic theory as applied to ideal gases• State and use the general gas equation $pV = nRT$ in calculations• Describe the lattice structures of crystalline solids including	<ul style="list-style-type: none">• Make a power-point presentation to explain VSEPR theory as well as σ and π bonds• List at least 10 molecules with their shapes and bond angles• Research on hydrogen bonding as well as metallic bonding• Solve past paper questions based on identifying the coordinate covalent bonding, shapes of molecules, bonding and physical properties. <p>Activity:</p> <ul style="list-style-type: none">• Design a quiz using Kahoot based on kinetic theory as applied to gases (to include – conditions necessary for gas to approach ideal behaviour and limitations of ideality)• Practice calculations based on ideal gas equations <p>Draw a flow chart to show the lattice structure of crystalline solids and describe their properties based on it.</p>	<p>http://www.inchm.bris.ac.uk/schools/vsepr/</p> <p>https://chem.libretexts.org/Core/Physical and Theoretical Chemistry/Physical Properties of Matter/Atomic and Molecular Properties/Intermolecular Forces/Specific Interactions/Hydrogen Bonding</p> <p>http://www.chemguide.co.uk/physical/ktmenu.html</p> <p>electronegativity (chemguide.co.uk)</p> <p>Electronegativity Demonstration Device - YouTube</p>
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	ionic, simple molecular, giant molecular		https://www.youtube.com/watch?v=ojgrvPnbPj4 https://www.youtube.com/watch?v=6fGzxmpl1WU Electronegativity across period 3 - Creative Chemistry (creative-chemistry.org.uk) ionic (electrovalent) bonding (chemguide.co.uk) the order of filling 3d and 4s orbitals (chemguide.co.uk)
Economics	<ul style="list-style-type: none">• Discuss the meaning of a government budget, deficit, surplus, and national debt. Explain types of taxation, including direct, indirect, progressive, regressive, and proportional. Distinguish between marginal and average rates of tax• Distinguish between expansionary and contractionary monetary policy. Analyse how monetary policy impacts national	<ul style="list-style-type: none">• Analyse a recent government budget (e.g., UAE, UK, USA) and identify surplus/deficit. Classify given taxes into direct/indirect and progressive/regressive. Complete a short quiz comparing marginal and average tax rates.• Research a central bank decision on interest rates and identify whether it is expansionary or contractionary. Draw AD/AS diagrams showing how a rate cut or hike affects output and prices. Role-play a central bank meeting deciding policy for inflation or unemployment.	Tutor2u – <i>Monetary Policy Overview</i> (https://www.tutor2u.net/economics/reference/monetary-policy) Tutor2u – <i>Supply-Side Policies</i> (https://www.tutor2u.net/economics/reference/supply-side-policies) Tutor2u – <i>International Trade: Terms of Trade</i> (https://www.tutor2u.net/ec)



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	<p>income, output, price level, and employment using AD/AS.</p> <ul style="list-style-type: none"> • Explain the meaning and objectives of supply-side policy. Discuss how supply-side policies improve productivity and shift LRAS. • Analyse the causes and effects of changes in the terms of trade. Evaluate the limitations of trade theories. • Analyse the impact of these policies on consumers, producers, and trade. Evaluate arguments for and against protectionism. 	<p>Study case studies such as Singapore’s investment in education or the UK’s infrastructure projects. Design a supply-side policy package for a chosen country. Draw LRAS shifts to show how supply-side policies work. Calculate the terms of trade using simple data sets. Use a diagram to show how TOT improves or worsens. Research examples of countries that benefited or suffered from TOT changes. Discuss in groups the limitations of comparative advantage in the real world.</p>	<p>conomics/reference/terms-of-trade)</p> <ul style="list-style-type: none"> • Tutor2u – <i>Trade Protectionism</i> (https://www.tutor2u.net/economics/reference/trade-protectionism)
<p>Mathematics <u>Pure</u> <u>Mathematics 1</u></p>	<p>Arithmetic and Geometric series</p> <ul style="list-style-type: none"> • Recognize arithmetic progressions and geometric progressions • Use formulae for the nth term of an AP or GP • Use formulae for the sum of first n terms of an AP or a GP 	<p>Make notes on AP and GP formulae. Research on their real life applications. Where do you come across these series in life? Derive the formulae for the sum of first n terms of an AP or a GP</p>	<p>https://www.cliffsnotes.com/study-guides/algebra/algebra-ii/sequences-and-series/arithmetic-series https://www.mathsisfun.com/algebra/sequences-sums-geometric.html</p>



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	<ul style="list-style-type: none"> Interpret and find the sum to infinity of a convergent geometric progression <p>Binomial theorem:</p> <ul style="list-style-type: none"> To expand using binomial theorem <p>To find the coefficient of any term in the expansion/term independent of x.</p>	<p>Try to expand the terms of $(a+b)^n$ where n is upto 10 using Pascal's triangle. Now verify the coefficients in the corresponding binomial expansion.</p>	<p>https://revisionmaths.com/advanced-level-maths-revision/pure-maths/algebra/binomial-series</p> <p>https://studywell.com/maths/pure-maths/sequences-series/binomial-expansion/</p>
Art& Design	<p>To explore directly observed subjects or relate to a theme or concept.</p>	<p>Record ideas, observations and insights relevant to intentions, understanding of conveying a personal response though fine art, working on a theme.</p>	<p>www.studentartguide.com</p>
Statistics 1	<p>Topic: Permutations and combinations</p> <ul style="list-style-type: none"> Differentiate between permutation and combination and solve problems involving selections. Analyse and solve problems on arrangement and permutation involving restrictions and repetitions. 	<p>Research and present your work on application of permutation and combination in real life.</p> <p>What is Bayer's theorem? How does this relate with conditional probability?</p> <p>Model a situation on conditional probability from a real life situation.</p>	<p>https://revisionmaths.com/advanced-level-maths-revision/statistics/permutations-and-combinations</p> <p>https://revisionmaths.com/advanced-level-maths-</p>



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	<p>Topic : Probability</p> <ul style="list-style-type: none">• Evaluate probabilities by means of enumeration of equiprobable elementary events, or by calculation using permutations or combinations.• Use addition and multiplication of probabilities.• Understand meaning of exclusive and independent events including determination of whether events are independent or not.• Calculate and use conditional probabilities.		<p>revision/statistics/probability</p>
<p>Psychology</p>	<p><u>Research Methods: Sampling of participants</u> To understand the different types of sampling.</p>	<ul style="list-style-type: none">• Outline the connection between the sample and the population.• “If you wanted to study <i>stress among teachers</i>, which sampling method would you use and why?”	<p>www.simplypsychology.org/sampling.html</p>



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Physics	<p><u>Dynamics</u></p> <ul style="list-style-type: none">• To state and apply each of Newton's laws of motion.• To describe qualitatively the motion of bodies falling in a uniform gravitational field with air resistance• To apply the principle of conservation of momentum to solve simple problems, including elastic and inelastic interactions between bodies in one and two dimensions <p><u>Projectile motion</u></p> <ul style="list-style-type: none">• To describe and explain motion due to a uniform velocity in one direction and a uniform acceleration in a perpendicular direction	<ul style="list-style-type: none">• A snooker ball strikes stationary ball. The second ball moves off sideways at 60° to the initial path of the first ball. Use the idea of conservation of momentum to explain why the first ball cannot travel in its initial direction after the collision. Illustrate your answer with a diagram• Practice numerical problems applying the conservation of momentum principle.• To derive equations for Range and maximum height for a projectile	<p>https://www.physicsclassroom.com/class/newtlaws/Lesson-1/Newton-s-First-Law</p> <p>https://www.s-cool.co.uk/a-level/physics/momentum-and-impulse/revise-it/principle-of-the-conservation-of-momentum</p> <p>https://www.physicsclassroom.com/class/momentum/u4l2b.cfm</p> <p>https://www.physicsclassroom.com/Class/vectors/u3l2a.cfm</p> <p>https://www.physicsclassroom.com/class/vectors/Lesson-2/Horizontally-Launched-Projectiles-Problem-Solving</p>
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<p>Sociology</p>	<p><u>Diversity of human behaviour and cultural variation.</u> To distinguish between modernist and post-modernist theories of culture and identity</p>	<ul style="list-style-type: none"> • Discuss differences between popular culture and high culture. Consider the contribution of post-modernist thinkers to sociological debates about culture and identity in contemporary societies. Contrast this with earlier sociological theories of culture and identity. • Invite the learners to gather images from the internet that illustrate the importance of consumerism in the life of many people in modern industrial societies today. Discuss the impact of consumerism on the construction of social identities and relate this to key themes in the writings of the post-modernists. Ask the learners to compile arguments for and against the post-modernist view of the factors influencing social identity today. 	<p>Cultural variations and human behaviour: www.sociology.org.uk</p> <p>Barnard, A. et al, pages 25–30 provides an account of the post-modernist analysis of culture and identity.</p> <p>For a helpful introduction to post-modernist theory reference the Classic Collection video, From Modernity to Post-Modernity. http://onlineclassroom.tv/sociology/</p>
<p>English Language</p>	<p>Analysing the style of a writer</p>	<p>Research on any extract from a short story of any genre and identify the common themes, motifs,</p>	<p>https://americanliterature.com/author/kate-</p>



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		<p>style of writing, figurative devices etc. employed by the writer(s).</p> <p>Attempt a short story of 200-300 words with a similar theme, motifs and style that you have researched on</p>	<p>chopin/short-story/the-story-of-an-hour</p> <p>https://americanliterature.com/high-school-short-stories</p>
Information Technology	<p>Theory: Data Processing and information</p> <ul style="list-style-type: none">• Differentiate between data, information and knowledge; direct and indirect data sources.• Importance of encryption, Advantages and disadvantages of different protocols and methods of encryption <p>Practical:</p> <ul style="list-style-type: none">• 1NF,2NF,3NF	<p>Encourage your child to complete the following tasks and prepare a report or presentation based on their findings. This activity will require internet research, data analysis, and critical thinking. Find a real-world example of data being transformed into information and then into knowledge. This could be from any field such as healthcare, business, environmental science, etc. Research: Study the concepts of database normalization, including the definitions and purposes of the First Normal Form (1NF), Second Normal Form (2NF), and Third Normal Form (3NF) and design a table, normalize to 3 NF</p>	<p>http://www.teach.ict.com/</p> <p>http://www.cie.org.uk/</p>
Computer Science	<p>➤ To develop a strong understanding of array concepts, including indices, bounds, and data</p>	<p>➤ To write a pseudocode for a data logging program that reads sensor data from a simulated input and writes it to a file, appending new data at regular intervals.</p>	<p>http://en.wikibooks.org/wiki/A-level_Computing/AQA/Probl</p>



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	<p>manipulation. Emphasize the importance of choosing the right data structure for a given task.</p> <ul style="list-style-type: none">➤ To understand the necessity of file handling in programming, including reading from and writing to text files.	<ul style="list-style-type: none">➤ Write a program to check if the elements of an array form a palindrome (i.e., they read the same forward and backward).	<p>em Solving, Programming, Data Representation and Practical Exercise/Fundamentals of Programming/Comments</p> <p>Inputs and outputs in programming:</p> <p>http://en.wikibooks.org/wiki/A-level_Computing/AQA/Problem Solving, Programming, Data Representation and Practical Exercise/Fundamentals of Programming/Inp ut and output</p> <p>Operators:</p> <p>http://en.wikibooks.org/wiki/A-level_Computing/AQA/Problem Solving, Programming, Data Representation and</p>
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			<p>_ Practical Exercise/Fundamentals of Programming/Arithmetic operators</p> <p>www.pp4s.co.uk/main/tu-op-intro.html</p>
Travel and Tourism	<p>To analyse the changing nature of global tourism flows</p>	<p>Research two destinations considering both positives and negatives, e.g., New Zealand and earthquakes, Dubai for infrastructural developments, etc.</p> <p>Produce detailed information on each destination explaining the rise or fall in visitor numbers.</p>	<p>www.msn.com/en-gb/news/world/new-zealand-earthquake-third-larger-tremor-sparks-fresh-tsunami-warnings/ar-BB1efBvD</p> <p>https://gulfnews.com/business/tourism/uae-to-spend-more-than-300-billion-on-infrastructure-development-by-2030-1.1314180</p>