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Subject	Focus	Activities	Useful website
Accounting	• To recognise the advantages and disadvantages of partnerships • To prepare relevant financial statement pertaining to partnership businesses.	• Visit a partnership organisation in UAE with your parents, and compare and contrast how a partnership business is different from sole trading business. • Evaluate the financial statements prepared at the end of the financial year. Produce a partnership agreement.	www.myaccountinglab.com, www.bized.co.uk www.tutor2u.net www.cie.org.uk, Accounting Text books
Arabic	TOPIC: كيف أنقذتني الكتابة Learning objectives: أن يحدد الطالب الفكرة الرئيسة والأفكار الفرعية. أن يحلل الطالب النص تحليلاً أدبيًا. - أن يحلل المتعلم أفكار النصّ. - أن يحلل وجهة النظر في النصّ. TOPIC أسلوب الاختصاص Learning objectives: أن يوظف أسلوب الاختصاص	ولي الأمر يقرأ مع المتعلم القصة بعمق وشمولية يتناقش ولي الأمر مع المتعلم حول (أحداث القصة – والفكر الواردة - الشخصيات – معجم القصة –وضع نهاية مختلفة للقصة –خصائص مدرسة أدب الخراب – واجبنا تجاه الشعوب المنكوبة – نقد القصة) يوظف ولي الأمر مع الطالب أسلوب الاختصاص يعرب ولي الأمر مع الطالب أسلوب الاختصاص	http://gate.ahram.org.eg/News/818755.aspx https://seraj-uae.com/file/11842/

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	أن يعرب أسلوب الاختصاص TOPIC التقديم والتأخير Learning objectives: أن يوظف أسلوب التقديم والتأخير أن يحدد أغراض أسلوب التقديم والتأخير	يوظف ولي الأمر مع الطالب أسلوب التقديم والتأخير يحدد ولي الأمر مع الطالب أغراض أسلوب التقديم والتأخير	https://seraj-uae.com/file/11842/
Islamic Studies **Arabs**	**عنوان الدرس: العقل والنقل** **1.يبيّن العلاقة بين العقل والنقل في الإسلام.** **2. يفسّر موقف الإسلام من استخدام العقل في فهم النصوص الشرعية.** **3. يستنتج دور العقل في عمارة الأرض وتحقيق مقاصد الشريعة.** **4. يوضح أن النقل الصحيح لا يتعارض مع العقل السليم.** **5. يقدّر قيمة العقل في حياة الإنسان ودوره في التكليف والمسؤولية.**	المفهوم العام للعقل والنقل: بالتعاون مع طفلك وضّح المقصود بكل من العقل والنقل في الإسلام. شارك طفلك كيف يبيّن لماذا لا يمكن للعقل والنقل أن يُغني أحدهما عن الآخر. مع الشرح وذكر الاسباب مكانة العقل في الإسلام: ساعد طفلك أن يستخرج ثلاث آيات قرآنية تدل على أهمية العقل. اشرح دلالة كل آية في توجيه الإنسان للتفكر والتدبر.	https://dorar.net https://quran.com . https://www.awqaf.gov.ae https://seraj-uae.com/

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		ضوابط استخدام العقل: بالتعاون مع طفلك: استنتج من الدرس القواعد التي وضعها الإسلام لاستخدام العقل في التفكير والبحث. ثم اربط بين هذه الضوابط ومفهوم الاجتهاد الشرعي.	
Islamic for Non-Arabs	TOPIC- JUSTICE IN ISLAM THE BATTLE OF TRENCH LEARNING OBJECTIVES: • **To analyze** the Islamic concept of justice (‘Adl) and its importance in creating a fair and harmonious society. • **To explicate** how Muslims can demonstrate justice in everyday situations • **To understand** the key events of the Battle of the Trench and explain the role of consultation, strategic	Reflect on a situation at school, home, or in the community where you may need to make a fair decision. Explain how following the Islamic principle of justice would influence your actions and the outcome. Reflect on a difficult situation you may face at school, home, or in your community. Which lesson from the Battle of the Trench—patience, teamwork, consultation, or trust in Allah—could help you overcome it? Explain how you would apply it.	https://myislam.org/99-names-of-allah/al-adl/ https://zamzam.com/blog/battle-of-trench/

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	planning, and teamwork in the Prophet's ﷺ leadership. • **To analyse** how the Muslims demonstrated patience, trust in Allah, courage, and perseverance during the challenges of the battle.		
Business	<u>Unit - Finance and Accounting</u> **Topic – Absorption Costing and Contribution Costing** To evaluate the significance of Absorption Costing and Contribution Costing using real-world context	Research and produce a Report on how different businesses and industries may choose to allocate costs in different ways and the problems associated with allocation, e.g.: •travel industry – how can the fixed cost of a bus/airplane be allocated to individual passenger prices? •Coca-Cola – how can indirect costs be allocated across the range of drinks produced by the brand? 1. • Apple – if costs for product development are allocated to each	www.bized.co.uk www.tutor2u.net www.s-cool.co.uk www.businesscasestudies.co.uk Text Books/journal

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		product, how might this affect the perceived profitability of a new iPad?	
Biology	**<u>Cell membrane and transport</u>** • To describe and explain the fluid mosaic model of membrane structure, including an outline of the roles of phospholipids, cholesterol, glycolipids, proteins and glycoproteins • To outline the roles of cell surface membranes proteins • To outline the process of cell signaling involving the release of chemicals that combine with cell surfaces. • To describe and explain the processes of diffusion, facilitated diffusion, osmosis, active transport, endocytosis and exocytosis • To explain the movement of water between cells and solutions with different water potentials and explain the	• Interpret the photomicrographs of the cell membrane and elaborate in the cell signalling pathway. • Investigate diffusion and osmosis using plant tissue and nonliving materials, such as Viking tubing and agar. • Investigate the effect of changing surface area to volume ratio on diffusion using agar blocks of different sizes. • Investigate the effects of immersing plant tissues in solutions of different water potentials, using the results to estimate the water potential of the tissues. • Compare the process of diffusion and facilitated diffusion and elaborate on the different pathway through which polar and non-polar molecules move in and out of cells.	https://www.bbc.co.uk/bitesize/guides/zqdhjty/revision/1 https://www.physicsandmathstutor.com/biology-revision/a-level-cie/cell-membranes-transport/ https://studymind.co.uk/notes/function-of-cell-membrane/ https://www.savemyexams.com/a-level/biology/cie/22/revision-notes/4-cell-membranes--transport/4-1-fluid-mosaic-membranes/4-1-4-cell-signalling/ https://bio.libretexts.org/Bookshelves/Human_Biology/Human_Biology_(Wakim_and_Grewal)/05%3A_Cells/5.07%3A_Cell_Transport

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	different effects on plant and animal cells.		
Chemistry	**AN INTRODUCTION TO ORGANIC CHEMISTRY**: • To understand the terms empirical, molecular and structural formulae, homologous series and functional groups. • To apply IUPAC rules to naming organic compounds with up to six carbon atoms and containing up to two functional groups. • To describe and explain structural isomerism for aliphatic compounds containing up to six carbon atoms; and • To understand that stereoisomers (geometrical) exist	Activity 1: Giving out molecular modelling kits and get students to build simple straight-chain alkanes from methane to hexane Activity 2 Practice drawing the structural and stereoisomers of organic compounds. Activity 3: Prepare a brochure for Rules of naming organic compounds along with the properties of a a homologous series.	http://www.chemistryrules.me.uk/candr/nomenclature.htm https://www.chemguide.co.uk/basicorg/isomermenu.html https://www.mytutor.co.uk/answers/69/A-Level/Chemistry/What-is-the-difference-between-structural- http://www.docbrown.info/page06/FunctionalGroups.htm http://www.docbrown.info/page14/page14orgnomen.htm http://www.s-cool.co.uk/a-level/chemistry/reaction-kinetics http://www.chemistryrules.me.uk/hfhf/hfhf3.htm

	(alkenes) in cis and trans (E-Z) forms due to the energy barrier to rotation in these ***RATE OF REACTION*** • Explain and use the term *rate of reaction* • Explain qualitatively, in terms of collisions, the effect of concentration changes on the rate of a reaction • Construct and interpret a reaction pathway diagram, in terms of the enthalpy change of the reaction and of the activation energy • Explain and use the term *catalysis* • explain that catalysts can be homogenous or heterogeneous • Explain that, in the presence of a catalyst, a reaction has a	ACTIVITY 1 Research the definition of rate of reaction and correlate it to any physics quantity. Also find out about what makes reactions occur. ACTIVITY 2 Plan an experiment to investigate the rate of reaction. ACTIVITY 3 Create an infographic poster about catalysis. Include definition, types and how catalysts enhance speed of reaction. ACTIVITY 4 Create a simulation to explain the Boltzmann distribution curve to your peers.	http://www.docbrown.info/page03/ASA2rates.htm http://www.chemguide.co.uk/physical/energetics/sums. html http://chubbyrevision.weebly.com/energetics.html http://www.ocr.org.uk/Images/208647-enthalpy-changes-delivery-guide.pdf http://www.swotrevision.com/pages/alevel/chemistry/m3_part2.htm http://www.chemguide.co.uk/physical/basicratesmenu.h tml

	different mechanism, i.e. one of lower activation energy • Interpret this catalytic effect in terms of the Boltzmann distribution • describe enzymes as biological catalysts (proteins) which may have specificity • explain and use the term activation energy, including reference to the Boltzmann distribution • Explain qualitatively, in terms both Boltzmann distribution and of collision frequency, the effect of temperature change on the rate of a reaction • **<u>Enthalpy changes</u>** • Explain that chemical reactions are accompanied by energy changes, principally in the form of heat energy; the energy changes can be exothermic (ΔH is negative) or endothermic (ΔH is positive)	ACTIVITY 1 Practice drawing energy cycles and application of Hess's law. Activity 2: Bromine reacts with iodine to form iodine monobromide, IBr. The table below lists some average bond enthalpies which are required in different parts of this question.	

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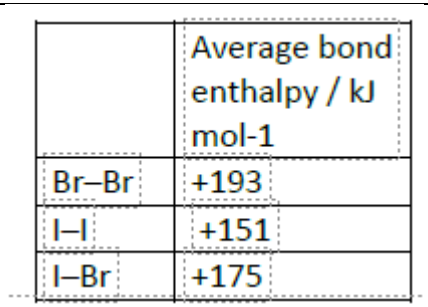
	• Show understanding of chemical reactions in terms of energy transfers associated with the breaking and making of chemical bonds • Explain the terms bond energy, bond length and bond polarity and use them to compare the reactivities of covalent bonds • Explain enthalpy change of reaction and standard conditions, with reference to formation, combustion, hydration, solution, neutralization, atomization • (ii) bond energy (ΔH positive, • i.e. bond breaking)	 (i) Why do Br2 and I2 not exist in the gaseous state under standard conditions? (ii) Calculate the enthalpy change of formation, DHf, for IBr.	
Economics	Topic: Policies to correct imbalances in the current account of the balance of payments. • To analyze the effect of fiscal, monetary, supply-side and protectionist policies on the current account	• Activity 1: • Country X has a current account deficit of 8% of GDP.Why could this be a problem?"	https://www.tutor2u.net/economics/reference/balance-of-payments-policies-to-improve-trade?srsltid=AfmBOoggLE2xb4fV7G31Z-2VwKP0C-r0WQoLRnOAbbarQ8dkQjSu2Nb-

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		• In small groups, students brainstorm **economic consequences** of a large deficit or surplus Activity 2: Students act as **economic advisers** and design policy recommendations to stabilise a country's current account. • Country A: large current account deficit, slow growth, high inflation. • Country B: large current account surplus, falling exports, rising unemployment. Each group represents one of four policy: 1. Fiscal Policy (tax and spending) 2. Monetary Policy (interest rates, money supply) 3. Supply-Side Policy (competitiveness, productivity) 4. Protectionist Policy (tariffs, quotas	https://www.youtube.com/watch?v=d_0Ff4msdbw https://www.tutor2u.net/economics/reference/correcting-balance-of-payments-imbalances-online-lesson?srsltid=AfmBOorp66U6h4SeWYYlzF8W6d09AQvFj7FRZFkHOb-6Y09ksxO8IjwK

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Mathematics **Pure Mathematics 1**	Arithmetic and Geometric series • 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 • Interpret and find the sum to infinity of a convergent geometric progression Binomial Expansion: • To expand using binomial theorem • To find the coefficient of any term in the expansion/term independent of x.	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 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.	https://www.cliffsnotes.com/study-guides/algebra/algebra-ii/sequences-and-series/arithmetic-series https://www.mathplanet.com/education/algebra-2/sequences-and-series/arithmetic-sequences-and-series https://www.mathsisfun.com/algebra/sequences-sums-geometric.html https://revisionmaths.com/advanced-level-maths-revision/pure-maths/algebra/binomial-series
Art & Design	AO1 and AO2	Students work on a theme and consider artistic constraints and problems. Consider traditional, contemporary, and emerging techniques and approaches.	www.studentartguide.com
Statistics 1	Topic: Discrete random variables • Draw up a probability distribution table relating to a given situation involving a discrete random variable X. • calculate E(X) and Var(X).	Model a situation on discrete random variable from a real life situation.	https://revisionmaths.com/advanced-level-maths-revision/statistics/discrete-random-variables https://www.savemyexams.com/a-level/maths/cie/20/probability-and-statistics-1/revision-notes/statistical-distributions/probability-

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			distributions/discrete-probability-distributions/ https://www.youtube.com/watch?v=oHcrna8Fk18&list=PLvxOuBpazmsNIHP5cz37oOPZx0JKyNszN
Psychology	Topic- Cognitive Approach Learning Objective- Will be able to explain the essential features of the cognitive approach Learning Outcome- To evaluate the cognitive approach and its application to real life.	• Students create a diagram of how a computer works and consider the analogy that their mind works 'like a computer'. See if they can identify any strengths or weaknesses of adopting that model. • Students will generate and list various mental processes/mental aspects. •	Textbook www.tutor2u.net/psychology/reference/the-cognitive-approach and a more detailed and extensive description available at: www.simplypsychology.org/cognitive.html
Physics	Electricity Derive I=nAvq for a current carrying conductor Sketch V-I characteristics of different non ohmic conductors	Research on practical circuits in which non ohmic conductors are used Explain what is meant by charge is quantized. Derive step by	https://studylib.net/doc/15252631/tap-104--2--derivation-of-i-%3D-navq https://www.s-cool.co.uk/a-level/physics/momentum-and-

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	Explain changes in resistance for non ohmic conductors Analyze the concept of quantisation of electric charge Momentum • To apply the principle of conservation of momentum to solve simple problems, including elastic and inelastic collisions	step, the equation for current • 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	impulse/revise-it/principle-of-the-conservation-of-momentum
Sociology	**Topic – Family** To discuss how the functions of families have changed over time, including the 'loss of functions' debate. • To analyse how the family benefits capitalism, including ideological control, reproduction of labour and consumption. To assess feminist responses to functionalist and Marxist accounts of the role of the family.	• Create a Infographic evaluating the functionalist, Marxist and Feminist views on the functions of the family	https://www.tutor2u.net/sociology/reference/families-functionalism https://revisesociology.com/2020/06/05/what-are-the-functions-of-the-family-today/ https://open.lib.umn.edu/sociology/chapter/15-2-sociological-perspectives-on-the-family/
English Language	Directed writing	• You have watched the movie Lincoln (2012). • Research on the life of Lincoln.	https://education.nationalgeographic.org/resource/how-abraham-lincolns-funeral-train-journey-made-history/

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		• Read the articles provided in the link. Share how the article aids or alters your understanding of Abraham Lincoln.	
Computer Science	Implementing and writing pseudocode from flowcharts or structured English. • Writing pseudocode for variable declarations, assignments, and expressions. • Utilizing control structures like IF statements, CASE structures, and loops. • Defining and using procedures and functions effectively.	Create pseudocode from given flowcharts. • Write pseudocode for declaring constants and variables, and assigning values. • Write pseudocode for IF statements with ELSE and nested IFs. • Develop a CASE structure for a given scenario. • Implement different types of loops (count-controlled, post-condition, pre-condition) and justify their use in specific problems. • Write pseudocode for IF statements with ELSE and nested IFs. • Develop a CASE structure for a given scenario. • Implement different types of loops (count-controlled, post-condition, pre-condition) and justify their use in specific problems. • Analyze and rewrite pseudocode to improve efficiency. • Discuss the importance of using built-in functions and library routines	Operators: http://en.wikibooks.org/wiki/A-level_Computing/AQA/Problem_Solving,_Programming,_Data_Representation_and_Practical_Exercise/Fundamentals_of_Programming/Arithmetic_operators www.pp4s.co.uk/main/tu-op-intro.html W3Schools - Pseudocode - A great resource for understanding pseudocode basics
Travel and Tourism	To analyse the changing nature of global tourism flows	Research two destinations considering both positives and negatives, e.g., New Zealand	www.msn.com/en-gb/news/world/new-zealand-earthquake-third-larger-tremor-

		and earthquakes, Dubai for infrastructural developments, etc. Produce detailed information on each destination explaining the rise or fall in visitor numbers.	sparks-fresh-tsunami-warnings/ar-BB1efBvD https://gulfnews.com/business/tourism/uae-to-spend-more-than-300-billion-on-infrastructure-development-by-2030-1.1314180