



Subject	Focus	Activities	Useful website
Accounting	 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. 	 Prepare a sway presentation analyzing the structure of limited companies which should include the following – 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. OR Prepare a Ted Ed Flipped Lesson on the topic. 	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
Arabic (Arabs)	:TOPIC مراجعة على أنواع التشبيه والاستعارة	ارسم خريطة ذهنية موضحاً فيها انواع التشبيه مع التمثيل عبر عن المواقف بجمل من إنشائك تحوي التشبيه -	https://www.youtube.com/watch?v=Mat6R0toi gl





(أثراء)	مثَّل لكل نوع من أنواع التشبيه.	
Learning objectives:	حول الأمثلة من تشبيه تام أوبليغ إلى تشبيه تمثيلي والعكس -	
أن يقارن بين أنواع التشبيهات		
. و التشبيه التمثيلي أن يحلل التشبيه التمثيلي موضحا موطن الجمال فيه. . أن ينتج فقرة تتضمنه -	يفتح المعلم باب الحوار المنظم للاستماع إلى ملاحظات - الطلاب حول المفاهيم النحوية التي تعلموها (مثّل لكل من (البدل - (عمل قطعة ويقوم الطلاب باستخراج (البدل -	
أن يتعرف الاستعارة ويستخدمها في كتابة فقرة * TOPI البدل	قم بعمل خريطة ذهنية (البدل - إجراء اختبار ختامي قصبر للتأكد من مستوى التعلم لدى - الطلاب من خلال ورقة عمل	https://www.youtube.com/watch?v=ZwGIxw4i k0M
Learning objectives:		
. أن يحدد الطالب البدل في الجمل		
ن يوظف الطالب البدل في فقرة	ĥ	
		https://www.youtube.com/watch?v=H4MGzCu UKEs





Islamic Studies Arabs	TOPIC: الزواج طريق الاستعفاف - فقه ترتيب الأعمال Learning objectives:	يستنتج المخاطر المترتبة على عدم تيسير الزواج يوضح الأعمال التي تعين على العفة	https://www.youtube.com/watch?v=gntzG3- nxCc
	يفسر الآيات القرآنية من سورة النور يستنتج التدابير الوقائية لمكافحة الزنا يشرح المقصود بفقه ترتيب الأعمال يستنتج أهمية فقه ترتيب الأعمال	يذكر بعض النماذج من فقه ترتيب الأعمال يطبق فقه ترتيب الأعمال على المسائل المختلفة	https://www.youtube.com/watch?v=DidI- wo3l18
Islamic Studies		Analyze the significance of chastity in •	•
Non Arabs	TOPIC: CHASTE FAMILIES, PURE SOCIETY	the Muslim community. Compare between two community one of them	https://www.youtube.com/watch?v=NgOREMQ- <u>SAY&t=1</u>
	Learning objectives:	enhance the virtue of Chastity and the other doesn't. What would be the	
	-TO COMPREHEND THE CONCEPT OF CHASTITY IN ISLAM	consequences of the acts of the two communities.	
	- TO ANALYZE THE CONSEQUENCES OF CHASTITY ON AN INDIVIDUAL AND SOCIETY	how would Allah warn those who disobey the Prophet (P.B.U.H)? Will a person who	
	TOPIC: POLITNESS WITH THE MESSENGER (P.B.U.H)	neglects the way of Prophet (P.B.U.H) be punished? How can this negligence ruin our	https://www.youtube.com/watch?v=5mHpAlybFY8 &t=6s





	Learning objectives: To elucidateThe importance of obedience to Prophet (P.B.U.H) . To evaluate the benefits of the obedience to Prophet (P.B.U.H)	lives ruin our lives? Give examples from day- to-day lives.	
Biology	 Transport in Plants Elaborate the pathways and explain symplastic pathway and apoplastic pathway and Casparian strip) 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 	 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). Work out which way water will flow to and from cells / environments with given water potentials (no calculations of water potential are expected). Research, (apoplast, symplast and vacuolar) and the role of the endodermis and Casparian strip, by giving a brief written / diagrammatic summary of findings. 	 <u>https://www.youtube.com/watch?v=B5gGwASEpaY</u> http://www.microscopy-uk.org.uk/mag/artmar00/watermvt.html http://www.mhhe.com/biosci/pae/botany/histology/html/memtrans.htm <u>http://users.rcn.com/ikimball.ma.ultranet/BiologyPages/X/Xylem.html</u>





	 State that assimilates, such as sucrose and amino acids, move between sources (e.g. leaves and storage organs) and sinks. 	 Justify and explain why transpiration is inevitable, and list the advantages of transpiration. 	
Business Studies	Topic – Marketing Mix (Promotion and Place) To critically evaluate the methods used to measure the effectiveness of promotional spending.	Research and prepare a presentation on the promotional activities used by a firm. Select 2 large businesses in UAE and Critically evaluate their promotional strategies.	AS and A level Textbook by Peter Stimpson. <u>https://www.tutor2u.net/business/reference/</u> <u>marketing-mix-promotion-revision-</u> <u>presentation</u>
Chemistry	 ALCOHOLS, ESTERS AND CARBOXYLIC ACIDS: To explain the chemistry of alcohols, exemplified by ethanol, in the following reactions: (i) combustion (ii) substitution to give halogenoalkanes (iii) reaction with sodium 	 Create a mind map showing reactions of alcohols and also how they relate to other classes of compound already learnt. Practice making molecular models of isomers of alcohols with 3, 4 and 5 carbon atoms. 	https://www.chemguide.co.uk/organicprops/alcoholm enu.html https://en.wikibooks.org/wiki/Organic_Chemistry/Alco hols https://www.chegg.com/homework-help/questions- and-answers/classify-alcohols-prima





 (iv) oxidation to carbonyl compounds and carboxylic acids (v) dehydration to alkenes (vi) formation of esters by esterification with carboxylic acids To explain characteristic oxidation reactions of alcohols using various oxidizing agents. To deduce the presence of a CH3CH(OH)- group in an alcohol from its reaction with alkaline aqueous iodine to form tri-iodomethane 	 Solve questions based on examples of primary, secondary and tertiary alcohols, to decide which can be oxidised and which cannot name a suitable oxidising agent give visible observations state conditions and give formulae of products. construct balanced chemical equations. Predict the alcohols from a given list, which will give positive iodoform test and to construct balanced chemical equations. 	
 CARBONYL COMPOUNDS: To describe: (i) the formation of aldehydes and ketones from primary and secondary alcohols respectively using Cr2O72–/H+ 	 Prepare a power point to compare and contrast the reactions of aldehydes and ketones. Choose the compounds which give positive iodoform test, from a given list of organic substances. Carry out analysis of aldehydes and ketones in the laboratory, using 	https://www.youtube.com/watch?v=2r-EBwCLogw http://www.a-levelchemistry.co.uk/45-compounds- containing-the-carbonyl-group.html https://alevelchemistry.co.uk/notes/carbonyl- compounds/





(ii) the reduction of aldehydes and	 Tollens reagent 	http://chubbyrevision-
ketones, e.g. using NaBH4 or LiAlH4	- Fehlings solution	a2level.weebly.com/compounds-containing-the- carbonyl-group.ht
(iii) the reaction of aldehydes and	- 2,4-DNP	
ketones with HCN and NaCN.	- Schiffs reagent	https://www.chemguide.co.uk/organicprops/acidmen u.html
To describe the mechanism of	Solve practice problems on reactions	
the nucleophilic addition	of aldehydes and ketones	https://www.youtube.com/watch?v=gmM1jX-n7vg
reactions of hydrogen cyanide	 To identify products 	https://www.proprofs.com/quiz-
with aldehydes and ketones	- Reaction conditions	school/story.php?title=njeyode4
 To interpret the use of 2,4- 	- Write balanced chemical equations.	https://global.oup.com/uk/orc/pharmacy/ifp_chemistr y/01student/mcqs/ch06/
dinitrophenylhydrazine (2,4-		
DNPH) reagent to detect the presence of carbonyl compounds	 Produce a poster describing the nucleophilic addition mechanism. 	
compounds	 Model the nucleophilic addition mechanism using molecular 	
 To deduce the nature (aldehyde or ketone) of an unknown carbonyl 	models and modelling clay.	
compound from the results of simple tests (Fehling's and Tollens' reagents; ease of oxidation)	 Solve questions with a wide variety of reactions of carboxylic acids, To predict products Reaction conditions 	
 To describe the reaction of CH3CO– compounds with 	 Construct balance chemical equations. 	





 alkaline aqueous iodine to give tri-iodomethane To describe the formation of carboxylic acids from alcohols, aldehydes and nitriles To outline the reactions of carboxylic acids in the formation of: salts, by the use of reactive metals, alkalis or carbonates alkyl esters alcohols, by use of 	 Prepare a Ted-Ed lesson depicting Le Chatelier's principle and its application 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 Kc and Kp Make a Power-Point presentation on equilibrium by acids and bases. 	http://www.a-levelchemistry.co.uk/42- equilibria.html http://www.chem1.com/acad/webtext/cheme g/Eq-01.html http://www.ocr.org.uk/Images/261544- equilibrium-delivery-guide.pdf https://www.chemguide.co.uk/physical/equilib menu.html
formation of: - salts, by the use of reactive metals, alkalis or carbonates - alkyl esters	equilibrium constant Kc and Kp Make a Power-Point presentation on	menu.ntmi
 Equilibrium: 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. 		
Economics	 To discuss the causes and changes in the terms and trade. To discuss the importance of protectionism. To discuss the causes of imbalances in BOP 	 Research on research your own or another allocated country's changes in the terms of trade over the last twenty years determine whether they have improved or deteriorated over this period and whether they have been volatile or stable assess the implications for the future development of their given economy. the impact of each method in solving (e.g.) a balance of payments deficit in their own country Research and write a report on the relative importance of the identified arguments for protectionism in 	<pre>www.economicsonline.co.uk/Global_economics /Policies_to_promote_development.html www.businesseconomics.com/country- data.html https://www.tutor2u.net/economics/reference /protectionism http://www.economicsonline.co.uk/Global_eco nomics/Trade_protectionism.html www.economicsonline.co.uk/Global_economics /The_balance_of_payments.html www.economicshelp.org/blog/5776/trade/uk- balance-of-payments www.businesseconomics.com/country- data.html</pre>





		 relation to their own country's economy. the causes of imbalances for each component in the current account using source material from textbooks and the web links provided, making notes on the explanations they find. 	
Psychology	Milgram (Obedience) To describe and explain the background to the study, the sample and the selection strategy adopted and the findings/ explanations of the study.	Share either some study notes or the original version available at <u>http://library.nhsggc.org.uk/mediaAssets/M</u> <u>ental%20Health%20Partnership/Peper%202%</u> <u>2027th%20_Nov%20Milgram_Study%20KT.p</u> <u>df</u> or <u>https://drive.google.com/file/d/1DaPmu5ke</u> <u>8KJxIZCrnYJAmz1cuDP4Eqkl/view</u> (differentiate) on the background, the sample, the method and procedure and learners read, checking on their individual levels of accuracy and understanding. An abridged version of the study can be found at <u>http://www.holah.karoo.net/milgram.htm</u>	www.simplypsychology.org/milgram.html.
Physics	Stationary waves Diffraction Interference	Explain the formation of a stationary wave using a graphical method, and identify nodes and antinodes.	Standing waves: https://studynova.com/lecture/physics/waves/standin g-waves/
	The diffraction grating	Demonstrate the diffraction of monochromatic light using a laser and a single slit.	https://studynova.com/lecture/physics/waves/slit- diffraction/
		Understand the conditions required if two-source	





		interference fringes are to be observed.	
	Atoms, nuclei and radiation	Derive the equation that relates wavelength and the diffraction spacing	Alpha Decay simulation: https://phet.colorado.edu/en/simulation/legacy/alpha- decay
		Describe the composition, mass and charge of α -, β - and γ -radiations.	Beta Decay simulation: https://phet.colorado.edu/en/simulation/legacy/beta- decay
	Fundamental particles	Understand that a quark is a fundamental particle and that there are six flavours (types) of quark: up, down, strange, charm, top and bottom.	
Sociology	Sociology as a Science. Students will be able evaluate Sociology as science	Examine the debate surrounding sociology as a science. Can it be considered a science? Who claims it can and why? Evaluate this though the claims that it cannot be a science and discuss why not?	Useful video: <u>https://youtu.be/ZlwyNldgJBE</u> (Crash Course Sociology introduces sociological research and the scientific method approach) Useful website: <u>www.shortcutstv.com/blog/wp-</u> <u>content/uploads/2017/04/Positivism-v-</u> <u>Interpretism.pdf</u> (comprehensive notes comparing the two approaches





English Language	 WRITING IN THE STYLE OF THE AUTHOR. To enhance critical thinking skills. To further enhance speech writing skills. 	Watch the following video and create a speech in the style of the speaker shown.	<u>Abraham Lincoln Gettysburg speech (Jeff</u> <u>Daniels) - YouTube</u>
Art and Design	AO3 and AO4 Presenting the developed ideas through investigations informed by contextual and other sources, demonstrating analytical and critical understanding. Present a personal and coherent response that realises intentions and, where appropriate, makes connections between visual and other elements	Communication: purposeful trials of art works to communicate, from the simplest sketch to the most complex work. The need to understand the relationship about the chosen subject and the works that will build on critical and purposeful influences transformed into original outcome.	www.studentartguide.com
Information Technology	 Theory : To evaluate the different causes of digital divide between people and regions. To discuss Master and transaction files Practical : 	Solve past paper questions based on the given topics . Create a mind map on ways to reduce digital divide. Compare Master and Transaction files Create a video using audacity and Movie maker	Audacity, Movie maker www.teach-ict.com





	 To use sound and video editing tools To use advanced spreadsheet functions To Normalize a data base 		
Computer Science	 To show how data are transferred between various components of the computer system using the address bus, data bus and control bus To determine how factors, contribute to the performance of the computer system. 	 Create a mind map to show how data are transferred between various components of the computer system using the address bus, data bus and control bus. Compare and evaluate how factors contribute to the performance of the computer system. Processor type and number of cores the bus width clock speed cache memory 	https://www.bbc.co.uk/bitesize/guides
Travel and Tourism	Topic: Reason for the growth of sustainable tourism To evaluate the measures undertaken by the government to support the growth of sustainable tourism	 Read different case studies and prepare a short talk to rest of the group. The case studies could include Costa Rica, Namibia, Kerala. <u>https://www.visitcostarica.com/en/costarica/things-to-do/ecoturism</u> <u>https://www.southerndestinations.com/africas-finest-namibias-top-5-eco-retreats/</u> 	 <u>https://www.visitcostarica.com/en/costarica/things-to-do/ecoturism</u> <u>https://www.southerndestinations.com/africas-finest-namibias-top-5-eco-retreats/</u> <u>https://www.keralatourism.org/ecotourism</u>





	Normal Distribution	 <u>https://www.keralatourism.org/ecotourism</u> Class discussion on the different products and services that are eco in the case studies – accommodation activities and packages. Analyse: How to respect the environment and local culture. 	
Statistics 1	 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 continuity correction, in solving problems. 	Research and summarise findings with examples on real life application of Normal distribution. Make notes to summarise learning that includes formulae and solved examples.	https://www.youtube.com/watch?v=y6wofZpuxf E https://www.youtube.com/watch?v=odwfM7LjC VY https://www.youtube.com/watch?v=- hyuDHGb9Ec http://onlinestatbook.com/2/normal_distribution/ normal_approxM.html





Mathematics	Pure Mathematics 1	Pure Mathematics	
	Integration: - Apply and use integration as the	Research on the real-life applications of	www.mathsisfun.com/calculus/integration- rules.html
	reverse process of differentiation, and integrate (ax + b)^n (for any rational n except -1), together with constant	integration. Physics - Apply integration to find distance from velocity, or finding velocity using acceleration.	https://www.tes.com/teaching-resource/a-level- maths-c2-definite-integration-worksheet-6146778
	 multiples, sums and differences. To evaluate a definite integral. To find the area under a curve To find the area between two curves. To 	Use integration to find the volume of an object with curved sides, e.g. wine barrels.	https://www.tes.com/teaching-resource/a-level- maths-c2-definite-integration-worksheet-6146778
	find the volume of revolution about one of the axes.	Volume of revolution may involve a region not bounded by the axis of rotation, e.g. the region between $y = (9 - x)^2$ and $y = 5$ rotated about the x-axis.	https://www.tes.com/teaching- resource/integration-powerpoint-6402321