



Subject	Focus	Activities	Useful website
Accounting	<ul> <li>To analyse the usefulness of Managerial Accounting in businesses</li> <li>To develop independent problem-solving skills</li> </ul>	<ul> <li>Revise all the topics covered so far in the AS level syllabus.</li> <li>Complete all MCQ questions and structures on the topics covered so far.</li> <li>Practice question from past paper 2016 – 2020 (Feb/March and May/June series)</li> </ul>	www.myaccountinglab.comwww.cie. org.uk, Accounting Text books
Arabic	TOPIC:	يحدد دلالة عنوان القصة مدعمًا رأيه بالأدلة	
	قصة	يشرح ارتباط العنوان بمدلول القصة ويذكر الأدلة من النص	nttps://www.uae- study.com/2020/07/Solve-lesson-
	نظرة خارج النافذة	يميز العبارات التي ساهمت في إظهار مشاعر الشخصيات	look-outside-window-grade-12.html
	Learning objectives:	أن يحلل تطور وجهة نظر الراوي في القصة	
	أن يحدد الطالب دلالة عنوان القصة مدعمًا رأيه بالأدلة		
	أن يشرح ارتباط العنوان بمدلول القصة ويذكر الأدلة من النص	أن يصف وجهات نظر الشخصيات	
	أن يميز العبارات التي ساهمت في إظهار مشاعر الشخصيات.	يصف الصفات الداخلية والخارجية للشخصيات ويوضح وجهة نظرهم في فكرة القصة	
	أن يحلل الطالب تطور وجهة نظر الراوي في القصة.	أن يبين تأثير العبارات في إظهار المشاعر .	https://seraj-uae.com/file/3862/





	TOPIC:		
	قصة		
	الحرباء		
	Learning objectives:		
	أن يصف الطالب وجهات نظر الشخصيات		
	أن يصف الصفات الداخلية والخارجية		
	للشخصيات ويوضح وجهة نظرهم في فكرة القصة		
	أن يبين الطالب تأثير العبارات في إظهار المشاعر		
Islamic Studies	السنن الريانية- مقاصد التشريع الخمسة :TOPIC	يبين فوائد دراسة مقاصد الشريعة	
Arabs	Learning objectives:		
		يحرص على حفظ الضرورات الخمسة	
	يدلل على أهمية السنن الربانية للفرد والمجتمع		
	يستنتج وسائل حفظ مقاصد التشريع الخمسة		https://www.voutube.com/watch?v=t6
			<u>4cEqKIHHI</u>





Islamic Studies		WRITE A JOURNAL ON HOW HAS U.A.E •	
		ENCOURAGE THE EMIRATI YOUTH TO	
Non Arabs	TOPIC: RESPONSIBILITY IN ISLAM	TAKE INDIVIDUAL AND COLLECTIVE	
		RESPONSIBILITY AND HOW DOES IT	
	Learning objectives:	HELP TO CONTRIBUTE IN THE	
		PROGRESS OF SOCIETY.	
	• To comprehend the importance of		
	individual and collective		
	responsibility.		
	<ul> <li>To analyze the link between</li> </ul>		https://www.youtube.com/wa
	communal peace and individual		tch?v=cYhqIITy4yY
	responsibility		WATCH THE VIDEO AND GIVE
	rosponsionty		YOUR VIEW ON THE
	TOPIC- CREATIVE THINKING IN		IMPORTANCE OF CREATIVE
	ISLAM		THINKING IN OUR DAY-TO-DAY
			LIVES
	<ul> <li>LEARNING OBJECTIVES</li> </ul>		LIVES
	To comprehend the concept of		
	<ul> <li>To comprehend the concept of productive (Creative) thinking in</li> </ul>		
	1310111		
	<ul> <li>-To evaluate the role of</li> </ul>		
	knowledge in creative thinking		
	5		
Biology			
	Cell membranes and transport		
	• To describe and explain the fluid	Create/Draw a model of fluid mosaic	http://www.ellenjmchenry.co
	mosaic model of membrane	membrane	m/downloads/Cells_Activitie
	structure, including an outline of		s_Chapters1and2.pdf





<ul> <li>the roles of phospholipids, cholesterol, glycolipids, proteins and glycoproteins.</li> <li>To outline the process of cell signaling involving the release of chemicals that combine with cell surface receptors on target cells, leading to specific responses.</li> <li>To describe and demonstrate the Movement of substances into and out of cells.</li> <li>Investigating the effect of</li> </ul>	<ul> <li>Students will demonstrate the movement of substances in and out of the cell</li> <li>Research the effect of various drugs on the cellular membrane and its working.</li> <li>Investigate the movement of substances in various solutions</li> </ul>	<ul> <li><u>https://www.teachengineering.g.org/activities/view/van_membrane_activity3</u></li> <li><u>http://www.amybrownscience.com/2011/09/free-osmosisdifusion-lab.html</u></li> <li><u>https://www.pinterest.com/pin/410742428488301074</u></li> <li><u>https://www.ukessays.com/essays/biology/practical-investigation-on-osmosis-biology-essay.php</u></li> <li><u>http://bibliopthiology.com/essay.php</u></li> </ul>
and understanding of the constraints of obtaining resources across the cell surface and moving substances out of cells <u>Mitotic cycle:</u>		weebly.com/osmosis.html
<ul> <li>To describe the structure of a chromosome, limited to DNA, histone proteins, chromatids, centromere and telomeres.</li> <li>To explain the importance of mitosis in the production of genetically identical cells, growth, cell replacement, repair of tissues and asexual reproduction.</li> </ul>	<ul> <li>Create a model of mitotic cycle including all the stages.</li> <li>Create a big wheel of mitotic cycle to learn more about each stages.</li> <li>For all music lovers! Create a rap on mitotic cycle.</li> <li>Students can make a jigsaw puzzle on the significance of mitosis.</li> </ul>	https://www.khanacademy.or g/science/biology/structure- of-a-cell#cytoskeleton-





• To outline the significance of			junctions-and-extracellular-
mitosis in cell replacement	• Students can make a case study on the		structures
and tissue repair by stem	chromosomal disorders in various case.		https://www.pinterest.com/pi
cells and state that			<u>N/AWCOUDIXYUDe/EDXNOR</u> H/B/aE5ufa37LUXNfzkrv8
result in the formation of a	To prepare microscopic slides using onion		OAzd6PC935YiGF/
tumor.	root tip squash to observe the different mitotic stages	$\triangleright$	https://www.pinterest.com/pi
• To describe, with the aid of	millour stages		n/539306124111951378
photomicrographs and		$\triangleright$	https://www.youtube.com/wa
diagrams, the behavior of			tch?v=pOsAb1i9tHw&teatur
chromosomes in plant and animal colls during the mitotic		$\triangleright$	<u>e=youtube_guata_playet</u> https://www.pinterest.com/pi
		,	n/ARWd9Q1nOF4ReNCKu4
			MPLUR9ZzPNgP9tnb52Rlk0
			3tfaHAIPIXOc3ws/
			http://quantumneurology.co
			<u>m/case-study-cnromosomal-</u> disorder-mosaic-trisomy-22/
		$\triangleright$	https://www.nature.com/scita
			ble/forums/genetics-
			generation/case-study-in-
			genetics-and-mental-illness-
			104902581 http://www.puffieldfoundation
			org/practical-
			biology/investigating-mitosis-
			allium-root-tip-squash





Business Studies	<u>Unit - Finance and Accounting</u> <b>Topic – Cash Flow Forecasting</b> To evaluate the significance of cash flow forecasting for new companies	Cash Flow Forecasting: Discuss why a new business should focus more on managing its cash than making a profit.	www.bized.co.uk www.tutor2u.net www.s-cool.co.uk www.businesscasestudies.co.uk
			Text Books/journals
Chemistry	<ul> <li>AN INTRODUCTION TO ORGANIC CHEMISTRY:</li> <li>To understand the terms empirical, molecular and structural formulae, homologous series and functional groups.</li> <li>To apply IUPAC rules to naming organic compounds with up to six carbon atoms and containing up to two functional groups.</li> <li>To describe and explain structural isomerism for aliphatic</li> </ul>	Activity 1: Giving out molecular modelling kits and get students to build simple straightchain alkanes from methane to hexane Activity 2: Compare the empirical, Molecular and structural formulae of organic compounds as a poster activity. Activity 3:	<ul> <li><u>http://www.chemistryrules.m</u> <u>e.</u> <u>uk/candr/nomenclature.ht</u></li> <li><u>https://www.chemguide.co.u</u> <u>k/ basicorg/isomermenu.htm</u></li> <li><u>https://www.mytutor.co.uk/an</u> <u>S</u> <u>wers/69/ALevel/Chemistry/W</u></li> </ul>





	Develop the location of the second	Les 1 to the still state of the
compounds containing up to six	Practice grawing the structural and	na t-is-the-difference-
carbon atoms; and	stereoisomers of organic compounds	<u>betweenstructural</u>
• To understand that		
stereoisomers	Activity 4:	<ul> <li>http://www.docbrown.info/pa</li> </ul>
(geometrical) exist (alkenes) in cis and	-	g e06/FunctionalGroups.html
trans (E-Z) forms due to the energy	Prepare a brochure for Rules of naming	<u> </u>
	organic compounds along with the	- http://www.dochrow/
barrier to rotation in these	proportios of homologous sorios	• <u>IIIIp://www.u0CDIOW</u>
	properties of normologous series.	<u>n.inio/pag</u>
RATE OF REACTION:	• Activity 1:	<u>e 14/page 14orgnomen.htm</u>
	Research the definition of rate of reaction	
• Explain and use the term rate of	and correlate it to any physics quantity.	
reaction	Also find out about what makes reaction to	• <u>http://www.s-</u>
• Explain qualitatively in terms of	OCCUR	cool.co.uk/alevel/chemistry/r
collisions the effect of		eactionkinetics
concentration changes on the rate	• Activity 2:	
of a reaction	<ul> <li>Dian an experiment to investigate rate of</li> </ul>	<ul> <li>http://www.chemistryrules</li> </ul>
Construct and interpret a reaction	reaction	me uk/hfhf/hfhf3 htm
<ul> <li>Construct and interpret a reaction</li> <li>pathway diagram in terms of the</li> </ul>		<u>me.ukmin/minio.ntm</u>
pathway ulayram, in terms of the	Activity 3 <sup>.</sup>	
entralpy change of the reaction	Create an infographic poster about	
and of the activation energy	catalysis include definition types and how	
• Explain and use the term catalysis	catalysis. Include definition, types and now	- http://www.ele.ele.ele.com///infe/
<ul> <li>explain that catalysts can be</li> </ul>	does catalyst enhance speed of reaction.	<ul> <li><u>nttp://www.docbrown.into/</u></li> </ul>
homogenous or heterogeneous		page03/ASA2rates.htm
<ul> <li>Explain that, in the presence of a</li> </ul>	Activity 4:	
catalyst, a reaction has a different		
mechanism, i.e. one of lower	• Create a simulation to explain the	https://www.voutube.com/
activation energy	Boltzmann distribution curve to your peers.	watch?v=ictsM6ISVDA
55		
	Activity 5:	





	<ul> <li>Interpret this catalytic effect in terms of the Boltzmann distribution</li> <li>describe enzymes as biological catalysts (proteins) which may have specificity</li> <li>explain and use the term activation energy, including reference to the Boltzmann distribution</li> <li>Explain qualitatively, in terms both of the Boltzmann distribution and of collision frequency, the effect of temperature change on the rate of a reaction</li> </ul>	<ul> <li>Create a CV for the biocatalyst.</li> <li>Activity 6: Create a list of questions using the Bloom's taxonomy.</li> </ul>	
Computer science	Programing concepts: To recognize the basic control structures in a high-level language other than the one chosen to be studied in depth appreciate that program coding is a transferable skill	Encourage your child to develop a software project to include the following: For example, if the chosen programming language is VB, give a program written in Pascal. Ask learners to translate the program in the chosen programming language. The result should be tested to see if it produces the correct output.	Commenting programs: <u>http://en.wikibooks.org/wiki/Alevel_</u> <u>Computing/AQA/Problem_Solving,</u> <u>Progr</u> <u>amming,_Data_Representation_and</u> <u>Practical_</u> <u>Exercise/Fundamentals_of_Progra</u> <u>mming/Com ments</u> Inputs and outputs in programming: <u>http://en.wikibooks.org/wiki/Alevel_C</u> <u>omputing/AQA/Problem_Solving, Pr</u>





			ogr amming, Data Representation and Practical
Economics	Discuss the causes and sequences of Inflation and Unemployment Revision on all AS topics	<ul> <li>Students discuss difficulties involved in arriving at an accurate unemployment figure and as a result, a number of different approaches are used.</li> <li>Students using case studies/ newspaper articles which illustrate various causes of unemployment.</li> <li>Discuss the consequences of unemployment through research activities.</li> <li>Through ED puzzle video students illustrate the stages of building the CPI.</li> <li>Learners research which types of inflation currently exist in their own country's economy and provide supporting evidence for each.</li> <li>Research activity. In groups, learners:         <ul> <li>analyse the consequences of inflation in their chosen economy</li> <li>identify and explain at least three different consequences</li> <li>attempt to assess their order of importance.</li> </ul> </li> </ul>	http://www.economicsonline.co.uk/Global_economics/Inflation.htmlhttps://www.tutor2u.net/economics/reference/inflation-measuring-inflationhttp://www.tutor2u.net/economics/revision-notes/as-macro-inflation.htmlhttp://www.tutor2u.net/economics/presentations/aseconomics/macro/Inflation/http://www.tutor2u.net/economics/revision-notes/a2-macro-economic-growth-costs-benefits.htmlhttps://youtu.be/iCRQdabmixc





		<ul> <li>Students in groups explain and discuss the links between inflation and unemployment and the theory which underpins this.</li> <li>Topic based revision UNIT 1,2 and 4.</li> </ul>	
Mathematics Edexcel	<ul> <li>Arithmetic and Geometric series</li> <li>Recognize arithmetic progressions and geometric progressions</li> <li>Use formulae for the nth term of an AP or GP</li> <li>Use formulae for the sum of first n terms of an AP or a GP</li> <li>Interpret and find the sum to infinity of a convergent geometric progression</li> </ul> Statistics Binomial theorem: <ul> <li>To expand (a + b)^n using binomial theorem</li> <li>To find the coefficient of any term in the expansion/term independent of x.</li> </ul>	<ul> <li>Make notes on AP and GP formulae.</li> <li>Research on their real life applications.</li> <li>Where do you come across these series in life?</li> <li>Derive the formulae for the sum of first n terms of an AP or a GP</li> <li>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.</li> <li>Model a situation on discrete random variable from a real life situation.</li> <li>Summarise your learning and prepare notes on discrete random variables with examples .</li> </ul>	https://www.cliffsnotes.com/study- guides/algebra/algebra- ii/sequences-and-series/arithmetic- series https://www.mathplanet.com/educ ation/algebra-2/sequences-and- series/arithmetic-sequences-and- series/arithmetic-sequences-and- series https://www.mathsisfun.com/algeb ra/sequences-sums-geometric.html https://www.youtube.com/watch?v =pFcJZnxqzNc https://revisionmaths.com/advance d-level-maths-revision/pure- maths/algebra/binomial-series https://studywell.com/maths/pure- maths/sequences-series/binomial- expansion/ https://revisionmaths.com/advance d-level-maths-





• Construct a probability distribution table for a discrete random variable X.	Model a situation for motion of a particle on a rough plane where the acceleration while	revision/statistics/discrete-random- variables https://www.youtube.com/watch?v
• Calculate the expectation, E(X),and variance,Var(X), of a discrete random variable.	moving up the plane is different from the acceleration while moving down the plane. Apply Newton's laws to such cases and frame	=OHcrna8Fk18&list=PLvxOuBpazms NIHP5cz37oOPZx0JKyNszN
• Calculate binomial probabilities using the notation X~B(n,p)	equations.	https://www.youtube.com/watch? v=nEiQyOyMVCA
• Calculate expectation and variance for a binomial distribution.	Create questions for connected particles like	https://revisionmaths.com/adva nced-level-maths- revision/mechanics/newtons- laws-motion
• Calculate geometric probabilities using the notation X~Geo(x)	light rope or a light rigid towbar. Consider all the forces acting in the system and applying	https://www.vivaysolutions.com
• Calculate expectation of a geometric distribution	Newton's laws of motion	/maths/alpulleys.aspx
• Recognise practical situations where these distributions are suitable models.		
Mechanics		https://www.a-
<ul> <li>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.</li> </ul>		kinetics-con-partcls.php





	<ul> <li>tension in an inextensible string and thrust in a connecting rod</li> <li>Solve problems which may be modelled as the motion of a particle moving vertically or on an inclined plane with constant acceleration</li> <li>solve problems which may be modelled as the motion of connected particles</li> </ul>		
Psychology			
		Creating mind maps on the theories. Debate on	
	Social approach	presentation on a specified study under Social Approach.	
Physics	Work, Energy, Power	Cive examples of operav in different forms, its	
	• Understand the concept of Work In terms of the product of a force	conversion and	https://www.physicsclassroom.com/cl
	and displacement in the direction	conservation, and apply the principle of	ass/energy
	<ul> <li>calculate the work done in a</li> </ul>	examples	
	number of situations including the		





	work done by a gas that is expanding against a constant external pressure: • distinguish between gravitational potential energy and elastic potential energy solve problems using the relationships $P=\frac{W}{t}$ and $P = Fv$	use the concept of efficiency to solve problems derive, from the defining equation $W = Fs$ , the formula $\Delta Ep = mg\Delta h$ for potential energy changes near the Earth's surface	http://www.softschools.com/notes/ap physics/work_energy_and_power/ https://www.alevelphysicsonline.com/ work-and-energy
	<ul> <li>Dynamics         <ul> <li>To apply the principle of conservation of momentum to solve simple problems, including elastic and inelastic interactions between bodies in one and two dimensions</li> </ul> </li> </ul>	<ul> <li>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</li> <li>Practice numerical problems applying the conservation of momentum principle.</li> </ul>	https://www.s-cool.co.uk/a- level/physics/momentum-and- impulse/revise-it/principle-of-the- conservation-of-momentum https://www.physicsclassroom.com/cl ass/momentum/u4l2b.cfm
English Language	Directed writing	You have watched the movie Lincoln (2012). Research on the life of Lincoln Read the articles provided in the link. Share how the article aids or alters your understanding of Abraham Lincoln.	http://news.nationalgeographic.com/ 2015/04/150418 -abraham-lincoln-funeral-train- railroad-civil-warhistory/





Art and Design	AO1 and AO2 learners to explore and build on their subject of interest. To encourage independent expression and the development of a critical, reflective practice. To accommodate a wide range of abilities, materials and resources, and allow the different skills to be fully exploited critically.	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	<ul> <li>To Explain why Esafety is important and why data should be kept confidential</li> <li>Describe potential health hazards associated with the use of computer.</li> <li>Justify the use of various preventive methods to protect from Computer viruses.</li> </ul>	Activities: Students to create a website on Esafety highlighting key points on how to keep ourselves safe online. Create online posters and presentations on Esafety. Students to work on advanced Database and spreadsheet concepts and Past paper Practice	Text book <u>https://www.cambridgeinternation</u> al.o rg/programmes-and- <u>qualifications/cambridge-</u> <u>internationalas-and-a-level-</u> <u>information-technology9626/\</u>





Practical:
Database concepts
Import tables into database
Queries and Reports'
Grouped Reports
Normalization concepts
Dynamic and Static Queries
Spreadsheets
Vlookup, Hlookup functions.
Multiple if statements
Left, Right, Concatenate
Pivot tables
Data filtering and sorting