



Subject	Focus	Activities	Useful website
Accounting	 To analyse the usefulness of Managerial Accounting in businesses. To develop independent problem- solving skills 	 Revise all the topics covered so far in the AS level syllabus. Complete all MCQ questions and structures on the topics covered so far. Practice question from past paper 2016 – 2020 (Feb/March and May/June series) 	www.myaccountinglab.comwww.cie.o rg.uk,
Arabic	مراجعة على أنواع التشبيه والاستعارة	ارسم خريطة ذهنية موضحاً فيها انواع التشبيه مع التمثيل عبرعن المواقف بجمل من إنشائك تحوي التشبيه -	https://www.youtube.com/watch?v= Mat6R0toiqI
	(أثراء)	مثّل لكل نوع من أنواع التشبيه.	
	Learning objectives: أن يقارن بين أنواع التشبيهات	حول الأمثلة من تشبيه تام أوبليغ إلى تشبيه تمثيلي -	https://www.youtubo.com/watch?v=7
	. و التشبيه التمثيلي أن يحلل التشبيه التمثيلي موضحا موطن الجمال فيه	يفتح المعلم باب الحوار المنظم للاستماع إلى ملاحظات - الطلاب حول المفاهيم النحوية التي تعلموها	https://www.youtube.com/watch?v=Z wGlxw4ik0M
	. أن ينتج فقرة تتضمنه -	(مثّل لكل من (البدل -	





	أن يتعرف الاستعارة ويستخدمها في كتابة فقرة *	(عمل قطعة ويقوم الطلاب باستخراج (البدل -	https://www.youtube.com/watch?v=
	ТОРІС	(البدل - عمل خريطة ذهنية	H4MGzCuUKEs
	البدل		
	Learning objectives:		
	. أن يحدد الطالب البدل في الجمل		
	أن يوظف الطالب البدل في فقرة		
Islamic Studies	حديث الإفك عظة وعبرة - السنن :TOPIC	يستنتج الآثار السلبية للشائعات على الفرد والمجتمع	https://www.youtube.com/watch?v=0
Arabs	الربانية	يوضح القيم التي تضمنتها الآيات	Y4w51zJVhY
	Learning objectives:	•	
	يفسر الآيات من سورة النور		
	يبين الأحكام الواردة في الآيات	يستخرج السنن الشرطية من القرآن الكريم	
	يوضح مفهوم السنن الربانية وأقسامها	يدلل على أهمية السنن الربانية في حياة الفرد والمجتمع	
	يبين خصائص السنن الربانية		
Islamic Studies	TOPIC: THE ISLAMIC METHADOLOGY	WRITE AN ARTICLE THAT SHOWS HOW	
Non Arabs	OF RAISING FAMILIES	IMPORTANT IS A HAPPY AND BALANCED FAMILY TO BUILD A HAPPY AND BALANCED	





	Learning objectives: -TO COMPREHEND THE IMPORTANCE OF A BALANCED FAMILY - TO EVALUATE THE CONSEQUENCES OF IMBALANCED FAMILY SYSTEM	SOCIETY.ADD ONE HADEETH AND AN EXAMPLE FROM SEERAH THAT SHOWS THE IMPORTANCE OF A HAPPY, BALANCED FAMILY.	https://www.youtube.com/watch?v=0 S9sPR1MIRU&ab channel=MercifulSe rvant
Biology	Discussion based on gap analysis Cell membranes and transport 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 process of cell signaling involving the release of chemicals that combine with cell surface receptors on target cells, leading to specific responses.	 Create/Draw a model of fluid mosaic membrane Students will demonstrate the movement of substances in and out of the cell 	 http://www.ellenjmchenry.com/downloads/Cells Activities Chapters1and2.pdf https://www.teachengineering.org/activities/view/van membrane activity3 http://www.amybrownscience.com/2011/09/free-osmosisdifusion-lab.html https://www.pinterest.com/pin/410742428488301074 https://www.ukessays.com/essays/biology/practical-investigation-on-osmosis-biology-essay.php





Business Studies	To differentiate between full costing and contribution costing techniques.	Research and critically evaluate the usefulness of the contribution costing technique to the management of a multiproduct sports shoe manufacturing business that has operations in more than one country. Present your findings in the form of a report.	http://brilliantbiologystudent. weebly.com/osmosis.html Cost Analysis & Decision-making a2-level-level-revision, business- studies, accounting-finance- marketing, budgeting, cost-analysis- decision-making Revision World
Chemistry	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.	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:	 http://www.chemistryrules.me uk/candr/nomenclature.ht https://www.chemguide.co.uk / basicorg/isomermenu.htm https://www.mytutor.co.uk/an s wers/69/ALevel/Chemistry/Wh a t-is-the-difference- betweenstructural





	RATE OF REACTION:	Practice drawing the structural and	
	 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 qualitatively, in terms both of the Boltzmann distribution and of collision frequency, the effect of temperature change on the rate of a reaction 	 Activity 4: Prepare a brochure for Rules of naming organic compounds along with the properties of homologous series. Activity 1: Research the definition of rate of reaction and correlate it to any physics quantity. Also find out about what makes reaction to occur. 	 http://www.docbrown.info/page06/FunctionalGroups.html http://www.docbrown.info/page14/page14orgnomen.htm http://www.s-cool.co.uk/alevel/chemistry/reactionkinetics http://www.chemistryrules.me.uk/hfhf/hfhf3.htm http://www.docbrown.info/page03/ASA2rates.htm https://www.youtube.com/watch?v=jctsM6ISVDA
Computer science	Testing Strategies: Choose suitable data for blackbox testing Understand the need for stub testing	 Encourage your child to develop a software and test a number of small programs, with test plans that they should classify as black box or white box testing. Ask them to focus on the concepts of stub 	Introduction to software testing – black box and white box: http://en.wikipedia.org/wiki/Softw are testin g





	testing when developing structured programs and modules.	www.pp4s.co.uk/main/tu-testing- intro.html http://en.wikibooks.org/wiki/Alevel Computing/AQA/Problem Solving, Programming, Data Representati on and Practical Exercise/Systems Development Life Cy cle/Testing
 Discuss the reasons for government intervention in markets. Evaluate the justifications for government intervention using subsidies and indirect taxes. 	 Research task: Students will research and make presentations and share with class Key examples of pure and quasi-public goods and consider the arguments for and against an increase in government spending on public goods. Using an example of a merit good, learners consider why they are provided by the government. Discuss how low prices and high prices in excess supply and excess demand. Reasons for levying taxes and what types of goods are suitable for taxation. Contrast the effect of a subsidy with that of a specific tax. 	https://www.tutor2u.net/economics/r eference/key-diagrams-positive- production-externalities https://www.tutor2u.net/economics/r eference/public-goods https://www.tutor2u.net/economics/ blog/unit-1-micro-public-goods-news- clips https://www.tutor2u.net/economics/ blog/externalities-and-government- failure-raw-sewage-and-britains- beaches





		Analyse and evaluate government subsidies to producers and consumers in different markets.	https://www.tutor2u.net/economics/reference/subsidies-2021-revision-update
Mathematics Edexcel	 Prove trigonometric identities and solve trigonometric equations Analyse and solve problems on application of radian measures 	Write down the steps required to solve three different trigonometric equations. Solve examination questions on Trigonometry and radians, self marking using CIE marking scheme and taking corrective measures.	https://www.intmath.com/trigonomet ric-functions/8-applications-of-radians.php https://en.wikibooks.org/wiki/High Sc hool Trigonometry/Applications of R adian Measure https://www.purplemath.com/modules/solvtrig.htm https://www.bbc.co.uk/bitesize/guides/zpkdd2p/revision/1 http://www.sosmath.com/algebra/solve/solve0/solvtrig.html





Aim High Progress Study Programme _ (Year 12) -December _2022

Mechanics

Forces and Equilibrium

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

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.

Create questions for connected particles like a car towing a trailer by means of either a light rope or a light rigid towbar. Consider all the forces acting in the system and applying Newton's laws of motion https://www.vivaxsolutions.com/math s/alpulleys.aspx

https://www.a-

<u>levelphysicstutor.com/m-kinetics-con-partcls.php</u>





	 Statistics 1 BINOMIAL DISTRIBUTION Calculate binomial probabilities using the notation X~B(n,p) Calculate expectation and variance for a binomial distribution. Calculate expectation of a binomial distribution Recognise practical situations where these distributions are suitable models. 	Model a situation on binomial distribution on real life situation. Differentiate binomial and geometric distributions with suitable example.	https://revisionmaths.com/advanced-level-maths-revision/statistics/permutations-and-combinations https://revisionmaths.com/advanced-level-maths-revision/statistics/probability
Psychology	Cognitive Psychology	Choose any or preferably all 4 studies and create either of these two, A Glogster poster with videos, images and text. A animoto/movie maker video compiling all the studies learnt.	www.glogster.com www.aniomoto.com www.psychologyabout.com www.s-cool.co.uk www.thestudentroom.co.uk/wiki/A- Level Psychology





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Discussion based on gap analysis

Work, Energy, Power

- Understand the concept of work in terms of the product of a force and displacement in the direction of the force
- distinguish between gravitational potential energy and elastic potential energy solve problems using the relationships $P = \frac{W}{t}$ and P = Fv

Dynamics

 To apply the principle of conservation of momentum to solve simple problems, including elastic and inelastic interactions between bodies in one and two dimensions Give examples of energy in different forms, its conversion and conservation, and apply the principle of conservation of energy to simple examples

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

 Practice numerical problems applying the conservation of momentum principle. https://www.physicsclassroom.com/class/energy

http://www.softschools.com/notes/ap
 physics/work energy and power/

https://www.alevelphysicsonline.com/ work-and-energy

https://www.s-cool.co.uk/alevel/physics/momentum-andimpulse/revise-it/principle-of-theconservation-of-momentum

https://www.physicsclassroom.com/class/momentum/u4l2b.cfm





English Language	To enhance descriptive writing skills	Practice descriptive writing using real situations as prompts. For instance, choose a location in a mall and observe your surroundings. Take notes on what you see, hear, feel Then give yourself 1 hour to write a piece based on your observations.	http://study.com/academy/lesson/des criptive-writing-definition-techniques- examples.html
Art and Design	AO1, AO2 and AO3 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. To demonstrate understanding of conveying a personal response though fine art, working to a theme and considering artistic constraints and problems.	www.studentartguide.com
Information Technology	 Theory: Hardware and software Discussion on user Interfaces Types of software Differentiate between compilers and Interpreters. 	Activities: Students to create presentations on hardware and software and highlight key points on types of hardware and software.	https://www.cambridgeinternational.org/programmes-and- qualifications/cambridge- internationalas-and-a-level- information-technology9626/\





		Create online posters and presentations on	
2.	The digital divide	Digital divide and its impact on society.	
•	Factors that contribute to wards widening the digital divide gap Impact on society	Students to work on advanced Database and spreadsheet concepts and Past paper Practice	
Practio	cal:		
•	Database concepts		
•	Import tables into database		
4. 5. 6. 7. 8. 9.	Queries and Reports' Grouped Reports Normalization concepts Dynamic and Static Queries Spreadsheets /lookup, Hookup functions. Multiple if statements Left, Right, Concatenate . Pivot tables		