



Subject	Focus	Activities	Useful website
Arabic(Arabs)	TOPIC:	- يكتب أمثلة على اسم التفضيل .	https://www.youtube.com/watch?v=X2cJ4YQSz
	اسم التفضيل	- يحدد اسم التفضيل في الفقرة .	<u>Fg</u>
	قواعد لا تدرسها في المدرسة	- يكتب الأفكار من النص .	https://www.youtube.com/watch?v=REXW0bv EGr8
	هدفي في الحياة	- يقدم عرضا ثفويا .	https://www.youtube.com/watch?v=REXW0bv
	الناسك الحكيم	- يحلل القصة .	EGr8
	Learning objectives:	- يكتب عناصر القصة .	
	1- أن يحدد النقاط الرئيسة التي قام عليها النص.	- يكتب نهاية أخرى للقصة .	
	- أن يستنج ما ورد في النص من افكار		
	- أن يبين موقفه منها .		
	- أن يقدم عرضًا شفويًا تأملياً لرؤيته الشخصية عن الحياة وهدفه فيها .		
	- أن ينظم العرض تنظيمًا جيدًا.		
	- أن يلتزم الوقت المحدد له.		
	- أن يتعرف اسم التفضيل وصيغه		
	- أن يحلل القصة تحليلا أدبيا		





Islamic Studies	TOPIC:	يحفظ مقرر التلاوة	www.mogatel.com
(Arabs)		يبحث عن أخطار الشانعات على الفرد والمجتمع	
	حديث الإفك – المسوَّولية في الإسلام	كتب بحثًا عن حديث الافك	https://www.youtube.com/watch?v=ocvpHdaXldk
		اكتب بحثًا عن دورك في القضاء على الشانعات	
	Learning objectives:	يكت موضوعا عن فضل الزكاة على الفرد والمجتمع	https://www.youtube.com/watch?v=8f3r7f5_VmA
		اكتب تقريرا عن سنة التدرج في القرآن الكريم	https://www.voutube.com/watch?v=wp67k8
	أن يستنتج بعض أحكام الآيات		<u>pCNBI</u>
	ن يبين الأثار السلبية للشائعات		
	أن يستنتج فضل أم المؤمنين عائشة		
	أن يوضح مفهوم السنن الربانية وأقسامها		
	أن يدلل على أهمية فهم السنن الربانية للفرد والمجتمع		
	أن يبين خصائص السنن الربانية		





Islamic Studies	TOPIC:		
Non Arabs	<ol> <li>ALLAH'S MESSENGER AND SOCIAL LIFE</li> </ol>		
	Learning objectives:		
	<ul> <li>To identify the keenness of Prophet (P.B.U.H) on building coherent society. (By giving example from Seerah)</li> <li>To infer a link between communal peace and the development of Islamic State. (by giving examples from real life)</li> <li>THE IMPORTANCE OF SUNNAH</li> </ul>	Record your suggestions, How can we construct a well-balanced society by instilling the teachings of Prophet (P.B.U.H). Create a video that shows the social life of Prophet (P.B.U.H) and how we can benefit our lives by implementing his	https://www.youtube.com/watch?v=HreJejiqAl c&t=6s&ab_channel=MuftiMenk
	LEARNING OBJECTIVES;	advises.	
	<ul> <li>To elucidate the importance and significance of following the Sunnah</li> <li>To evaluate the consequences of neglecting the Sunnah</li> </ul>		





chemistryrules.me.uk/candr/nome
<u>n</u>
w chemguide co uk/basicorg/isomer
w.mytutor.co.uk/answers/69/A-
istry/What-is-the-difference-
ructural-
accorown.into/page06/Functional





(alkenes) in cis and trans (E-Z) forms due to the energy barrier to rotation in these	Practice drawing the structural and stereoisomers of organic compounds Activity 5:	http://www.docbrown.info/page14/page14org nomen.htm
<ul> <li>ALKANES <ul> <li>To understand the general unreactivity of alkanes, including towards polar reagents</li> <li>To describe the chemistry of alkanes as exemplified by the following reactions of ethane:</li> <li>Combustion</li> <li>substitution by chlorine and by bromine</li> </ul> </li> <li>To describe the mechanism of free-radical substitution at methyl groups with particular reference to the initiation, propagation and termination reactions</li> <li>To explain the use of crude oil as a source of both aliphatic and aromatic hydrocarbons</li> </ul>	Prepare a brochure for Rules of naming organic compounds along with the properties of homologous series. Activity 1: Practice writing balanced equations showing complete and incomplete oxidation. Compare combustion of simple alkanes and higher alkanes. Activity 2: Create an animation/ plan a simulation to show how free radical substitution reaction operates in alkanes.	http://www.a-levelchemistry.co.uk/16- alkanes.html         https://alevelnotes.com/Alkanes/138         https://alevelnotes.com/Alkanes/138         https://chemstuff.co.uk/unit-2/functional- groups/alkanes/         https://revisionworld.com/a2-level-level- revision/chemistry/organic-chemistry/alkanes





• To suggest how cracking can be	Activity 3:	ONLINE QUIZ
used to obtain more useful alkanes and alkenes of lower Mr from larger hydrocarbon molecules	- With reference to ADNOC- UAE based petroleum Industry write about every detail for fractional	<u>http://en.mcqslearn.com/a-</u> level/chemistry/alkanes-reaction-mcq.php
Enthalpy changes 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)	<ul> <li>distillation of crude oil. Also discuss the health and safety aspects during the fractional distillation.</li> <li>Activity 4:</li> <li>Prepare an INFOGRAPHIC poster to show reactivity of alkanes</li> </ul>	http://en.mcqslearn.com/a- level/chemistry/sources-of-alkanes-mcq.php
Show understanding of chemical reactions in terms of energy transfers associated with the breaking and making of chemical bonds	Activity 5: Research about chemical properties of alkanes and prepare a poster showing	
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 particular reference to: formation, combustion, hydration, solution, neutralisation, atomisation	the chemical reactions suitable mechanism. Activity 1: Make a power point presentation to show the relationship between bond energy and enthalpy change (use minimum 5 examples in your PPT)	http://www.chemguide.co.uk/physical/energeti cs/sums.html http://chubbyrevision.weebly.com/energetics.h tml http://www.ocr.org.uk/Images/208647- enthalpy-changes-delivery-guide.pdf http://www.swotrevision.com/pages/alevel/ch emistry/m3_part2_htm





(ii) bond energy (ΔH positive, i.e.	Activity	2:	http://www.chemguide.co.uk/physical/basicrat
bond breaking)	Bromine iodine n	e reacts with iodine to form nonobromide, IBr.	<u>esmenu.html</u>
	The tab bond er	le below lists some average hthalpies which are required in	
	differen	t parts of this question.	
	Bond	Average bond enthalpy / kJ mol-	
	Br–Br	+193	
	I–I I–Br	+151 +175	
	(i) Why	do $Br_2$ and $I_2$ not exist in the	
	gaseous	s state under standard	
	conditio	ons?	
	(ii) Calcu	ulate the enthalpy change of	
	formatio	on, $\Delta H_{f}$ , for IBr.	
	Activity	<b>3:</b> Practice drawing energy cycles	
	and app	lication of Hess's law.	
	Activity	4:	
	Solve p enthalp	ast paper questions based on y changes.	





Biology	<ul> <li>Biological molecules</li> <li>Justify the Structure of carbohydrates, proteins and Lipids and signify their roles In living organisms.</li> <li>Enlight the importance of Hydrogen bond in the formation of Biological molecules.</li> <li>Explore the unique properties of water to enable it to serve as universal solvent in cells.</li> </ul>	<ul> <li>Survey the bio fortified food with the types of biomolecules in the foods sold in UAE</li> <li>Evaluate whether the little brown grains of yeast obtained from the grocery store are alive by testing for metabolism and growth.</li> <li>https://mrsmillersblog.wordpresss.com/as-biology/</li> <li>For students interested in research and further studies</li> <li>Making a 3D and 2D structure of biomolecules for better understanding.</li> </ul>	http://www.rpi.edu/dept/bcbp/molbioche m/MBWeb/mb1/part2/sugar.htmhas_a comprehensive_review_of_carbohydrate structure_including_examples_of polysaccharides http://www.calfnotes.com/pdffiles/CN102. pdf https://alevelnotes.com/Lipids/58 http://study.com/academy/lesson/structur e-and-function-of-lipids.html http://biology4alevel.blogspot.ae/2014/08/ 10-lipids.html https://youtu.be/VGHD9e3yRIU http://www.markedbyteachers.com/as- and-a-level/science/biological-importance- of-water.html https://youtu.be/FziG5LgrXPo https://youtu.be/FziG5LgrXPo





Cell membrane and transport	• auestion 3.7.8 & 9 from the	https://www.youtube.com/watch?v=vV4kdJrV6
To describe and explain the fluid     mosaic model of membrane	course book	<u>00</u>
structure, including an outline of the roles of phospholipids,	Diagrammatically explain the	https://www.youtube.com/watch?v=knv4fNNo EG8
<ul> <li>cholesterol, glycolipids, proteins</li> <li>and glycoproteins</li> <li>To outline the roles of cell surface</li> </ul>	structure of cell membrane and explain its significance.	<u>https://www.youtube.com/watch?v=v5Nemz_c</u> Vew
membranes including references to carrier proteins, channel proteins, coll surface	<ul> <li>Using Bloom's taxonomy to create different level questions on cell structure.</li> </ul>	<u>https://www.bbc.co.uk/bitesize/guides/zqdhjty</u> /revision/1
<ul> <li>channel proteins, cell surface</li> <li>receptors and cell surface</li> <li>antigens</li> <li>To outline the process of cell</li> <li>signaling involving the release of</li> </ul>	<ul> <li>Interpret the photomicrographs of the cell membrane and elaborate in the cell signalling pathway.</li> </ul>	https://www.physicsandmathstutor.com/biolog y-revision/a-level-cie/cell-membranes- transport/
<ul> <li>chemicals that combine with cell surface.</li> <li>To describe and explain the processes of diffusion, facilitated</li> </ul>	<ul> <li>Investigate diffusion and osmosis using plant tissue and nonliving Materials, such as Viking tubing and agar.</li> </ul>	
diffusion, osmosis, active transport, endocytosis and exocytosis (no calculations involving water potential will be set)	<ul> <li>Investigate the effect of changing surface area to volume ratio on diffusion using agar blocks of different sizes</li> </ul>	
	<ul> <li>Investigate the effects of immersing plant tissues in solutions of different water potentials, using the results to</li> </ul>	





	<ul> <li>To calculate surface areas and volumes of simple shapes (including cubes) to illustrate the principle that surface area to volume ratios decrease with increasing size. To explain the movement of water between cells and solutions with different water potentials and explain the different effects on plant and animal cells</li> </ul>	estimate the water potential of the tissues	
Physics	<ul> <li>Work, Energy, Power</li> <li>Understand the concept of work in terms of the product of a force and displacement in the direction of the force</li> <li>calculate the work done in a number of situations including the work done by a gas that is expanding against a constant external pressure:</li> <li>distinguish between gravitational potential energy and elastic potential energy</li> <li>solve problems using the relationships P=<sup>W</sup>/<sub>t</sub> and P = Fv</li> </ul>	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 $W =$ <i>Fs</i> , the formula $\Delta E_P = mg\Delta h$ for potential energy changes near the Earth's surface	https://www.physicsclassroom.com/class/ener gy http://www.softschools.com/notes/ap_physics /work_energy_and_power/ https://www.alevelphysicsonline.com/work- and-energy





	<ul> <li><u>Electric Field</u></li> <li>To understand the concept of an electric field as an example of a field of force.</li> <li>To recall and draw the Electric field lines</li> <li>To recall and apply the concept of Electric field strength</li> </ul>	Revise the representation of electric field lines. Give reasons (a) A man in an insulated metallic cage does not receive a shock, even when the cage is connected to a high voltage source. Why? Electrostatic experiments do not work during humid days. Explain	www.islandphysics.com http://www.s-cool.co.uk/a- level/physics/electric-fields-and-forces/revise- it/electric-field-strength-e https://www.s-cool.co.uk/a- level/physics/electric-fields-and-forces/revise- it/electric-field-strength-e
Business Studies	<ul> <li>To understand why businesses, hold stocks and to evaluate the pros and cons of traditional stock management systems.</li> </ul>	<ul> <li>Students will research and write an editorial/ newspaper article on any 2 companies in real world who faced out of Stock problems which resulted in too many disappointed customers.</li> </ul>	www.tutor2u.net www.dineshbakshi.com www.cie.org.uk www.bized.co.uk Newspapers and Magazines





Accounting	<ul> <li>To analyze the usefulness of Break-even point in businesses and how it can be used for decision-making.</li> <li>Evaluate – 'Marginal costing as a Foundation for value-based Management accounting.</li> </ul>	<ul> <li>Present a report on the usefulness of break-even analysis and its main elements.</li> <li>Or prepare a Ted Ed Flipped Lesson on the topic.</li> </ul>	www.myaccountinglab.com, www.bized.co.uk www.tutor2u.net www.cie.org.uk, Accounting Text books
Economics	<ul> <li>To analyze the impact of PED &amp; PES on different stakeholders.</li> </ul>	<ul> <li>Students must prepare Ted Ed flipped lessons or Sway Presentations on subsidies and consumers gain &amp; producers gain from subsidies with connection to price elasticity of demand.</li> <li>Write a well- researched essay on the UK housing and the chronic shortage with connection to price elasticity of supply.</li> </ul>	www.tutor2u.net www.cie.uk.org www.s.cool www.projectsyndicate.com





Pure	Arithmetic and Geometric series		
mathematics	<ul> <li>Recognize arithmetic</li> </ul>		https://www.cliffsnotes.com/study-
	progressions and geometric	Make notes on AP and GP formulae.	guides/algebra/algebra-ii/sequences-and-
	progressions	Research on their real life applications.	series/arithmetic-series
	• Use formulae for the nth term of	Where do you come across these series	https://www.mathplanet.com/education/algeb
	an AP or GP	in life?	ra-2/sequences-and-series/arithmetic-
	• Use formulae for the sum of first	Derive the formulae for the sum of first	sequences-and-series
	n terms of an AP or a GP	n terms of an AP or a GP	https://www.mathsisfun.com/algebra/sequenc
	<ul> <li>Interpret and find the sum to</li> </ul>		es-sums-geometric.html
	infinity of a convergent geometric	Try to expand the terms of (a+b)^n	https://www.youtube.com/watch?v=pFcJZnxqz
	progression	where n is upto 10 using Pascal's	<u>Nc</u>
		triangle. Now verify the coefficients in	https://revisionmaths.com/advanced-level-
	Binomial theorem:	the corresponding binomial expansion.	maths-revision/pure-maths/algebra/binomial-
	• To expand $(a + b)^n$ using		series
	binomial theorem		https://studywell.com/maths/pure-
	To find the coefficient of any term in the		maths/sequences-series/binomial-expansion/
	expansion/term independent of x.		
	Statistics 1		
	Topic: Discrete random variables		
	<ul> <li>Construct a probability distribution table for a discrete random variable X.</li> </ul>	Model a situation on discrete random variable from a real life situation.	
	<ul> <li>Calculate the expectation, E(X),and variance,Var(X), of a discrete random variable.</li> </ul>	Summarise your learning and prepare notes on discrete random variables with examples	





<ul> <li>Calculate binomial probabilities using the notation X~B(n,p)</li> <li>Calculate expectation and variance for a binomial distribution.</li> </ul>		
<ul> <li>Calculate geometric probabilities using the notation X~Geo(x)</li> </ul>		
<ul> <li>Calculate expectation of a geometric distribution</li> </ul>		
<ul> <li>Recognise practical situations where these distributions are suitable models.</li> </ul>		
Mashaning 1		
<ul> <li>To apply Newton's laws of motion</li> <li>To apply Newton's laws of motion to the linear motion of a particle of constant mass moving under the extient of constant.</li> </ul>	Model a situation for motion of a particle on a rough plane where the acceleration while moving up the plane is different from the acceleration while moving down the plane.	
under the action of constant forces, which may	Apply Newton's laws to such cases and frame equations.	





	<ul> <li>include friction, tension in an inextensible string and thrust in a connecting rod</li> <li>To solve simple problems which may be modelled as the motion of a particle moving vertically or on an inclined plane with constant acceleration</li> <li>solve simple problems which may be modelled as the motion of connected particles.</li> </ul>	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	
Psychology	Biological approach: To investigate the role cognitive factors have in the experience of emotion when we are in a state of physiological arousal that has no immediate explanation	Schachter-Singer study	Cambridge Textbook, some useful links; https://www.thoughtco.com/schachter-singer- theory-4691140 https://www.verywellmind.com/the-two-factor- theory-of-emotion-2795718 https://replicationindex.com/2019/02/24/schachter -and-singer-1962-the-experiment-that-never- happened/





Sociology	To examine the sociological perspectives on social order and social stability	<ul> <li>Research on the different sociological perspectives - Functionalism, Marxism and Interactionism. Your research should also include the concept of social order and social stability.</li> <li>Prepare a power point on the work done by sociologists and the perspectives that come under the topic.</li> </ul>	https://www.verywellmind.com/theories-of- emotion-2795717 www.sociology.org.uk www.tes.co.uk
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 www.abraham-lincoln-funeral-train-railroad- civil-warhistory/





Art and Design	A01, A02	To develop personal practice, enrich your understanding of key concepts and improve their practical skills in a wide range of traditional and contemporary techniques.	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.cambridgeinternational.o</u> <u>rg/programmes-and-</u> <u>qualifications/cambridge-international-</u> <u>as-and-a-level-information-technology-</u> <u>9626/\</u>
	<ul> <li>Practical:</li> <li>Database concepts</li> <li>Import tables into database</li> <li>Queries and Reports'</li> <li>Grouped Reports</li> <li>Normalization concepts</li> <li>Dynamic and Static Queries</li> <li>Spreadsheets Vlookup, Hlookup functions.</li> </ul>		





Travel and	<ul> <li>Multiple if statements</li> <li>Left, Right, Concatenate</li> <li>Pivot tables</li> <li>Data filtering and sorting</li> <li>To Analyze and evaluate the 4 P's of</li> </ul>	Here's an opportunity to put your	Using the Internet. The Encyclopedia of
Tourism	marketing.	<ul> <li>knowledge of the Four P's into practice! You will select one of the eight motives for pleasure tourism.</li> <li>Create a one-day excursion in DUBAI. You may use three sites in DUBAI which are famous tourist spots.</li> <li>Create a poster and a brochure advertising your excursion.</li> </ul>	DUBAI, and other sources. Visit the sites, collect data, pick up brochures, etc. Create a one-day excursion in DUBAI city.
Computer Science	<ul> <li>Programing concepts:</li> <li>To recognize the basic control structures in a high-level language other than the one chosen to be studied in depth</li> <li>appreciate that program coding is a transferable skill</li> </ul>	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/A-</u> <u>level Computing/AQA/Problem Solving, Progr</u> <u>amming, Data Representation and Practical</u> <u>Exercise/Fundamentals of Programming/Com</u> <u>ments</u> Inputs and outputs in programming: <u>http://en.wikibooks.org/wiki/A-</u> <u>level Computing/AQA/Problem Solving, Progr</u> <u>amming, Data Representation and Practical</u>





	Exercise/Fundamentals of Programming/Inpu t and output
	Operators:
	http://en.wikibooks.org/wiki/A- level Computing/AQA/Problem Solving, Progr amming, Data Representation and Practical Exercise/Fundamentals of Programming/Arith metic operators www.pp4s.co.uk/main/tu-op-intro.html