



Area for learning	Focus	Activities	Useful Websites/Apps
English 1 <sup>st</sup> Language	<ul> <li>To enhance analytical skills of the student</li> <li>To enable learners to understand how writers create an effect</li> </ul>	<ul> <li>Read 2 to 3 poems of a certain poet, genre or era from the given website.</li> <li>Analyse the figurative language used.</li> <li>State the central theme and the effect on the reader.</li> <li>You can attempt a language analysis piece on the chosen poet.</li> </ul>	www.poetryhunter.com
English 2 <sup>nd</sup> Language	Article Writing	<ul> <li>Choose a feature article and a persuasive article and analyse the components of the same through a brief summary and annotations.</li> <li>Create a diagrammatic illustration distinguishing between the 2 types of articles mentioned above.</li> </ul>	www.khaleejtimes.com www.ndtv.com www.bbc.com
English Literature	To enhance understanding of short story as a genre	<ul> <li>Research on the features of short story as a genre.</li> <li>How does it differ from a novel?</li> <li>How does it affect the reader differently?</li> <li>What are the constraints and benefits of the genre?</li> <li>Research on the famous short story writers of the 20<sup>th</sup> and 21<sup>st</sup> century.</li> </ul>	www.gutenberg.org





derivatives of functions of calculus are very wide. It enters into many fields and are not https://doi.org/10.1001/https://doi	maths/calculus/differentiation https://www.khanacademy.org/ math/ap-calculus-ab/ab-
·	differentiation-1-new
<ul> <li>Apply differentiation to gradients and turning</li> <li>Research on the application of differentiation in the following cases:</li> </ul>	https://revisionmaths.com/adva nced-level-maths-revision/pure- maths/calculus/uses-
Discriminate between maxima and minima by  • What do we do if we are asked to calculate the amount of water required to fill a large swimming pool?  • https://www.discriminate.com/pool/supplies/books/linear/supplies/book	differentiation https://www.mathsisfun.com/ca lculus/maxima-minima.html
The graphic engineer uses calculus to determine the difference l	https://www.youtube.com/watc h?v=L-uFhB3iaPA





		•	Space engineers often use calculus when planning long missions to launch a probe because they need different speeds in the probe's orbit proportional to gravity and altitude. Calculus helps them to determine all these variables with infinite accuracy!	
Mathematics (Extended)	<ul> <li>Sets and Venn diagrams:</li> <li>To apply the intersection of sets, union of sets and complement of set and represent it in Venn Diagrams</li> </ul>	•	Make a glossary of different terms used in Sets and their notations. Add one example for each of those.  Research on real life application of sets and Venn diagrams.  Research and differentiate between variation and proportion.	https://www.mathsisfun.com/se ts/venn-diagrams.html https://corbettmaths.com/2016/ 08/07/venn-diagrams/ https://www.youtube.com/watc h?v=CffNhB44t70
	<ul> <li>To apply the concept of Sets and Venn diagrams to word problems</li> <li>Variation</li> <li>To calculate an unknown quantity from quantities</li> </ul>			https://www.mathsisfun.com/al gebra/directly-inversely- proportional.html https://www.khanacademy.org/ tag/direct-and-inverse-variation





	that vary in direct or inverse variation			
Physics	<ul> <li>Work, Energy and Power</li> <li>To relate work done to the magnitude of a force and the distance moved</li> <li>To describe energy changes in terms of work done</li> <li>To recall and use W= Fd = E</li> <li>To relate power to work done and time taken, using appropriate examples</li> </ul>	Energy in	Energy out	www.skool.co.uk www.lslandphysics.com https://hgphysics.com/gph/d- energy/work/ https://www.bbc.co.uk/educatio n/guides/zssk7ty/revision http://www.bbc.co.uk/schools/g csebitesize/science/21c/sustaina ble energy/choosing energy so urcesrev1.shtml http://www.bbc.co.uk/schools/g csebitesize/geography/energy r esources/energy rev1.shtml
	<ul> <li>To recall and use the equation P =E/t to solve problems</li> </ul>	Kinetic energy	Kinetic energy	https://www.youtube.com/watc h?v=pDK2p1QbPKQ





Chemistry	METALS AND REACTIVITY SERIES: • Listing the general	<ul> <li>Use PADLET and give examples for each type that is present in UAE or in your home country.</li> <li>Use the ideas of transfer of energy and power to explain the following:</li> <li>Water at the bottom of water- fall is warmer than at the top.</li> <li>Our hands become warm when we rush them against each other.</li> <li>To carry out Experiments the reaction of metals/non-metals with oxygen and the reaction of metal oxides with carbon</li> <li>To carry out reactions of metals with water, steam and dilute</li> </ul>	www.chemtopics.com/element s/alkali/alkali.html
	physical properties of metals and the general chemical properties of metals	<ul> <li>mineral acids</li> <li>Students, in groups, research different alloys and their uses</li> <li>.Results to be presented on a poster.</li> </ul>	www.webelements.com/ www.rsc.org/chemsoc/visualele ments/index.html





- Describe the reactivity series as related to the tendency of a metal to form its positive ion
- Account for the apparent unreactivity of aluminium

### The Periodic Table:

- To understand the concept underlying the arrangement of elements in the periodic table and explain the trends
- To demonstrate the knowledge of different reactions and properties of group 1, 7 & 0 elements

- Describe the reactivity Modelling a metallic structure using a shallow dish of water series as related to the with detergent
- tendency of a metal to form its positive ion

  Account for the apparent

   Experiments based on Reaction of Calcium, magnesium with water; Magnesium, zinc with steam; Magnesium, zinc, iron with dilute hydrochloric acid.

### Activity 1:

• Describe the relationship between group no., no. of valency electrons.

### **Activity 2:**

 Make cards on a representative element of each of the groups and enlist the general properties of it which are identical to that of its group members.

### Activity 3:

• Draw an infographic poster on the different types of reactions along with examples and their explanation.

www.ptable.com/ www.chemicool.com/

http://www.chem4kids.com/file s/elem\_noblegas.html

http://www.bbc.co.uk/schools/g csebitesize/science/aqa/fundam entals/theperiodictablerev1.sht ml

https://schoolworkhelper.net/metals-chemical-physical-properties/





	Describe the general physical and chemical properties of metals.		
Biology	<ul> <li>Plant Nutrition:</li> <li>To explain how the structure of the leaf is adapted for photosynthesis</li> <li>To investigate the necessity for chlorophyll, light and carbon dioxide for photosynthesis, using appropriate controls</li> <li>Describe the importance of:         <ul> <li>Nitrate ions for making amino acids</li> <li>Magnesium ions for making chlorophyll.</li> </ul> </li> </ul>	<ul> <li>increase photosynthesis. Research and find out what do plants do with the glucose made by them.</li> <li>Design a poster displaying how each limiting factor can affect the rate of photosynthesis.</li> </ul>	http://www.biotopics.co.uk/plants/psfac2.html http://www.encyclopedia.com/plants-and-animals/botany/botany-general/chlorophyll http://www.webexhibits.org/causesofcolor/7A.html http://study.com/academy/lesson/how-chlorophyll-absorbs-lightenergy.html http://anatomyandphysiologyi.com/digestive-system-overview/https://youtu.be/i5MH6ddyi74http://www.nationalgeographic.com/what-the-world-eats/





	Human nutrition		https://www.quora.com/Why-is-
	• To define balanced diet		food-so-different-around-the-
	and its importance		world
	• To explain how age,		http://www.webmd.com/parent
	gender and activity affect		ing/baby/nursing-basics#1
	the dietary needs of		http://www.livescience.com/450
	humans including during		90-pregnancy-diet.html
	pregnancy and whilst		
	breast-feeding		
	To describe the effects of		
	malnutrition in relation to		
	starvation, constipation,		
	coronary heart disease,		
	obesity and scurvy		
Food and	Sources and functions of	The Nutrient Content of Food	Food a fact of life website -
Nutrition	the following <u>Nutritive</u>	Use different visual aids to show how water, light and air affect	http://www.foodafactoflife.org.
	value of foods:	nutrients	uk/
	<ul><li>proteins,</li></ul>	• Cut out pictures of foods from magazines and sort into	
	<ul> <li>carbohydrates</li> </ul>	Nutrient groups. Paste them onto card and design a game,	





- fats
- vitamins (A, C, D, E, K, B thiamin, group riboflavin, nicotinic acid and cobalamin)
- mineral elements (calcium, iron. phosphorous, sodium, potassium, fluoride, chloride, iodide)
- water
- Sources and uses of food energy.
- Sources and functions non-starch polysaccharide (NSP)/dietary fibre.

(e.g., like snap or happy families) matching the name of the The Eat well platenutrients with the sources and function.

- Design an experiment to see what happens to vitamins when heat is applied.
- Adapt any recipe containing carrot to make something different keeping in mind to retain the nutritive value as much as possible.

https://www.gov.uk/governmen t/publications/the-eatwell-guide

### **Nutrients**

www.healthline.com/health/foo d-nutrition/six-essentialnutrients www.nia.nih.gov/health/importa nt-nutrients-know-proteinscarbohydrates-and-fats





Economics	To analyse how stock markets work	<ul> <li>The Stock Market</li> <li>Research on the two largest stock exchanges in the world. Find out the total value of all the stock and shares traded through them in 2016.</li> <li>'There are three types of stock that can be bought and sold through a stock exchange'. Briefly describe the types and which would you recommend for someone to buy? Why?</li> <li>What is 'speculation'? Who are bulls, bears and stags?</li> </ul>	www.bis.org/chanks.htm; www.centralbanksguide.com/
Accounting	To record day book entries into ledger accounts	<ul> <li>Interview people working in the Accounts Department of any organisation (it could be your own school)</li> <li>Identify the dual function of the cash book as a book of prime (original) entry and as a ledger account for bank and cash.</li> <li>Check with them the concept of Petty Cash Account.</li> <li>Reflect your findings in the form of a class presentation.</li> </ul>	www.tutor2u.net www.dineshbakshi.com www.cie.org.uk
Business Studies	<ul> <li>Business (Private)         objectives and         Stakeholders objectives</li> </ul>	State and explain PepsiCo VMOSA (Vision, Mission, Objectives, Strategies and Action Plans). Who are the stakeholders in the	www.bized.co.uk www.cie.org.uk www.xtermepapers.net





	To assess the importance of business objectives and how it can satisfy stakeholders objectives as well. How these objectives help business activity/growth in developing and developed countries	<ul> <li>Page 56 in Textbook)</li> <li>How will PepsiCo face the conflict of objectives between stakeholders while it is still diversifying its business with retail sector growing steadily?</li> </ul>	www.tutor2n.net Text Book
Travel and Tourism	<ul> <li>ICT in Travel and Tourism</li> <li>Identify and explain Use of ICT in Travel &amp; Tourism Industry</li> </ul>	<ul> <li>Collect information from websites and explain how Travel and tourism providers make use of computerised information systems and relevant technology to obtain information. How they provide tourism products &amp; services to customers &amp; how ICT helps in this (World span, Sabre, Galileo, World Wide Web).</li> </ul>	www.bized.co.uk Local travel Magazines Textbook www.tutor2u.net
Sociology	Socialisation  • Culture and identity:  ➤ To understand the key terms, culture, norms,		www.org.co.uk





	values, roles ,beliefs and identity and understand how they influence human behaviour	Globalisation	https://sites.google.com/site/year11igcsesociology/revision-guideswww.sociology.org.ukwww.s-cool.co.uk
Psychology	Depression	<ul> <li>Research the on the causes, effects and ways of dealing with depression.</li> <li>Create a big chart/poster to be used for a class display.</li> </ul>	https://www.psychologytoday.c om/us/conditions/depressive- disorders https://www.britannica.com/sci ence/depression-psychology https://www.mayoclinic.org/dise ases- conditions/depression/symptom s/syc-20356007
Geography	<ul><li>Settlements</li><li>Urban problems</li></ul>	Use the internet to research the key problems of large cities- transport, housing shanty towns, water and sanitation, pollution, unemployment and crime.	http://www0.un.org/cyberschoo lbus/habitat/index.asp http://geography.about.com www.georesources.co.uk





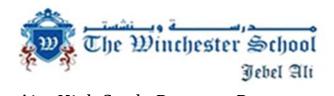
		Case study: Urban problems in New York and Detroit	http://www.bbc.co.uk/educatio
		Create a presentation that will be used for revision.	n/gcsebitesize/index.shtml.
			http://www.georesources.co.uk/
History	Germany 1918-1945	Research the topic and watch videos and documentaries on the	http://www.activehistory.co.uk/i
		topic. They will create summary notes/revision media in any	gcse/revision.htm
		chosen format based on the following key questions:	http://igcse-history.weebly.com/
		<ul> <li>Was the Weimar Republic doomed from the start?</li> </ul>	www.bbc.co.uk/bitesize/standar
		Why was Hitler able to dominate Germany by 1934?	d/history/germany 1918 1945
		<ul> <li>How effectively did the Nazis control Germany, 1933–45?</li> </ul>	https://www.historyonthenet.co
		What was it like to live in Nazi Germany?	m/nazi-germany-timeline
		, and the second	https://revisionworld.com/gcse
			./history/germany-1918-
			1945/situation-after-world-wa
Global	Demographic Changes	• Research various perspectives on key issues surrounding the	Online
Perspectives		topic Demographic :	http://www.ilo.org/public/englis
		• What are the personal, national, global and cultural	h/demographicchanges/strat/do
		perspectives on these issues?	wnload/get08.pdf
		• To what extent are these personal, national or global issues?	





		<ul> <li>What are the possible scenarios and courses of action on these issues?</li> <li>Create an outcome in any chosen format which will be used to create awareness on these issues.</li> </ul>	www.tradingeconomics.com/ind ia/demographicchanges-rate Statistics for demographic changes of India and other countries.
Environmental Management	Water and its management	Research the topic under the following headings and create a poster for display on A3 papers.  ■ Multipurpose dam projects  ➤ choice of site  ➤ environmental, economic and social impacts  ➤ sustainability  ■ Describe the sources of water pollution, domestic waste, including sewage from urban and rural settlements industrial	http://www.environment-agency.gov.uk/homeandleisure/floods/31736.aspx  www.environmentlaw.org.uk/rte.asp?id=90 https://www.gdrc.org/uem/water/water-pollution.html https://www.conserve-energy-
		processes agricultural practices	future.com/sources-and-causes- of-water-pollution.php





ICT	<ul> <li>Database</li> <li>To compare flat file and relational database</li> <li>To develop database</li> <li>To extract the data from database using queries</li> </ul>	<ul> <li>Infer the importance of relational database.</li> <li>Create a database for Winchester school. Support them to identify the fields and choose appropriate data types for the same.</li> <li>Explain the importance of creating forms and create an online form for student details in school.</li> <li>Identify features that could be added to make the forms user friendly.</li> </ul>	https://kb.iu.edu/d/ahrp  http://www.databasedev.co.uk/f latfile-vs-rdbms.html
Computer Science	Programming language  To analyse features of high level and low level language  To compare different translators like compilers and translators	<ul> <li>Python is a programming language that lets you work more quickly and integrate your systems more effectively. You can learn to use Python and see almost immediate gains in productivity and lower maintenance costs.</li> <li>Analyse features of compiled and interpreted languages. Also discover few compiled languages.</li> <li>Explore the importance of pyDOC feature in programming language.</li> <li>Discuss about various programming languages used in different companies of UAE.</li> </ul>	https://www.pythonforbeginners.com/basics/





		Research and develop assembly code.	
Physical Education	<ul> <li>To learn about types of muscle contractions.</li> <li>To know the difference between open skill and closed skill.</li> </ul>	<ul> <li>Find out the difference between isometric and isotonic contractions and write the examples.</li> <li>Write the difference between open skill and closed skill</li> <li>Think of some skills in sports and place them on to the continuum. e.g.</li> <li>Tennis serve</li> <li>Saving a goal in hockey</li> <li>Front crawl (open or closed skill)</li> </ul>	www.teachpe.com www.britishschoolofboston.org www.cie.org.uk www.innerbody.com www.physicaleducation.co.uk
Art	To explore and select appropriate resources, media, materials, techniques and processes.	<ul> <li>Explore creative use of materials, techniques to generate ideas and solutions to problems.</li> <li>Acquire competence in manipulating art media towards the expression of an idea.</li> </ul>	www.studentartguide.com
French	Mon temps libre	<u>SPEAKING</u> : «Qu'est-ce que tu aimes faire pendant ton libre? <a href="http://www.notreblogdefle.com/2015/03/parler-de-ses-loisirs.html">http://www.notreblogdefle.com/2015/03/parler-de-ses-loisirs.html</a>	Reading:-





•	To	give	opinions	about
	thir	ngs yo	u like or di	slike to
	do			

- To discuss TV and cinema
- To be able to arrange to go out
- To use some questioning words

https://fr.toluna.com/opinions/863451/Quels-sont-vos-loisirs-pr%C3%A9f%C3%A9r%C3%A9s,-que-vous-pratiquez

 LISTENING: Do the quiz and check the answers on line <a href="https://www.flevideo.com/fle\_video\_quiz\_low\_intermediate.">https://www.flevideo.com/fle\_video\_quiz\_low\_intermediate.</a> <a href="php?id=6778">php?id=6778</a>

https://www.flevideo.com/fle\_video\_quiz\_low\_intermediate.php?id=6781

https://www.flevideo.com/fle video quiz low intermediate.php?id=6779

 WRITING: Tu vas parler de ce que tu aimes faire pendant ton temps libre et ce que tu ne le préfères pas comme activité en citant les causes.

Vous devez écrire 130-140 mots.

https://www.francaisfacile.com/forum/lire.php?num=7&msg=81739&titre=Mes+loisirs+pr%E9f%E9r%E9s+

Check the given sentences and pick some to use them to help you.

https://fr.wikipedia.org/wiki/Temps libre

### Useful links :-

https://www.bbc.co.uk/bitesize/guides/zs2jq6f/revision/1 https://www.bbc.co.uk/bitesize/guides/zcshpv4/revision/1

https://www.bbc.co.uk/bitesize/
guides/zx849j6/revision/1

https://www.bbc.co.uk/bitesize/
guides/ztwk87h/revision/1





Arabic (Arabs)	Unit:	يقرأ ويحلل المتعلم أفكار النصّ.	https://www.youtube.com/watc
	سورة القلم	يوضح الفكرة الرئيسة والأفكار الداعمة.	h?v=8ukX3-ENY7g
	أن يوضح المتعلم الفكرة الرئيسة		
	والأفكار الداعمة.		https://www.youtube.com/watc
	أن يحلل المتعلم أفكار النصّ.		h?v=CT9nitNqS58
	Unit:	يذكر الفكرة العامة للنص ويحدد الأفكار الفرعية ويذكر الدليل .	
	نص حلل الربيع	يقارن بين نصين من حيث الأفكار والأسلوب	
	أن يذكر الفكرة العامة للنص ويحدد		
	الأفكار الفرعية .		
	يقارن بين نصين من حيث الأفكار		
	والأسلوب		
Islamic	صاحب الجنتين- السنة النبوية :	سيكلف الطالب بعض التكليفات – يحرص على حفظ سورة الكهف-يحرص على	
Education	اختلاف الفقهاء-آداب اللباس	العمل الخيري دائما ويلتزم بآداب الاسلام في اللباس	
(Arabs)	أن يستنتج الطالب آداب اللباس -*	يكتب قصة أصحاب الجنتين والدروس والعبر المستفادة منها	https://www.youtube.com/watc
	وأهمية في الإسلام مع الإستدلال من	يكتب بحثا عن السنة النبوية ومكانتها في التشريع	h?v=qyZ2_p2L-eg
	القرآن والسنة	يكتب بحثا عن اللباس الاسلامي وعادات وتقاليد اللباس الاسلامي	https://www.youtube.com/watc
	أن يميز الطالب الحلال والحرام من -*	-	<u>h?v=GTw99ppzVRk</u>
	اللباس		





	أن يقيم الطالب أنماط اللباس-* المختلفة عدل المختلفة الآيات الآيات الكريمة الكريمة الحرص على القيم الّتي الكريمة. التياتُ الكريمةُ.		
Islamic Education (Non Arabs)	<ul> <li>Human Development in Islam</li> <li>The Prophet's, peace be upon him, Methodology in Da'wah</li> </ul>	Write a script of a play on human development in Islam, and succession of man on Earth.	https://www.youtube.com/watc h?v=FXdvdRmGchE https://www.youtube.com/resul ts?search_query=2.%09Dressing +Etiquette+in+islam https://www.youtube.com/watc h?v=zd-rKtbXZWg





Moral	International Relations of the	•	Research about the foreign relations of the UAE and its role in	https://en.wikipedia.org/wiki/Forei
Education	UAE		various international organisations and dealing with global	
			ethical challenges.	<u>Emirates</u>
	To evaluate the external			
	role of the UAE in the			
	various international			
	organisations and forums			