



Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	To enhance the descriptive writing skills of the students.	 Follow the link mentioned and read the given article. Discuss the origins of the Halloween festival. Research on similar festivals celebrated in other parts of the world. Write a paragraph on the manner of their celebrations and the highlights of the festival. 	http://www.readersdigest.ca/f eatures/heart/science-behind- howling-wind/
English 2 nd Language	To enable students to gather appropriate information for a given topic.	 Research on the advantages and disadvantages of homeschooling. Name some famous celebrities who were homeschooled. Share your opinion on homeschooling. 	https://www.khaleejtimes.co m/nation/education/why- more-uae-parents-are- homeschooling-their-kids





		Create a brainstorm for the above points mentioned.	
English Literature	To introduce learners to the varied styles of writing through 'Songs of Ourselves'.	 Refer to the link provided. Read through the poem, as it forms your external reading. Analyse and compare the themes presented in this poem to the ones already attempted in class. 	The Waste Land by T. S. Eliot Poetry Foundation
Mathematics Accelerated	 Graphs of functions Draw quadratic, cubic, exponential and reciprocal graphs from the given equation Solve an equation using graphs Estimate the gradient of tangent at a given point to the curve. 	Research on different non-linear functions and their graphing. Do you notice any pattern in the shape of the graph of different functions? What is a vector quantity? Make a list of vector quantities. Also write down the corresponding scalar quantities?	https://www.mathsisfun.com/se ts/graph-equation.html https://www.bbc.co.uk/bitesize/ guides/zydmsrd/revision/1 https://www.youtube.com/watc h?v=wSPrXv7-8GQ https://www.youtube.com/watc h?v=pG1JHsFi6cQ





	 Vectors Add and subtract vectors, multiply with a scalar Identify parallel vectors Calculate the magnitude of vectors Apply position vectors in vector geometry 	Investigate on the applications of vector geometry.	Graphs of quadratic functions - Solving quadratic equations - Edexcel - GCSE Maths Revision - Edexcel - BBC Bitesize https://www.mathsisfun.com/al gebra/vectors.html https://www.youtube.com/watc h?v=vLmdMTlx4eA https://www.savemyexams.co.u k/notes/cie-igcse-maths-new/7- vectors-transformations-cie/7-1- vectors-cie/7-1-1-vectors-basics- cie/
Mathematics Extended	Congruence & Similarity • To recognize congruent shapes	Take two identical cylindrical jars. Measure its dimensions. Apply your knowledge of volume of	https://revisionmaths.com/gcse- maths-





November 2021

- Use the basic congruence criteria for triangles (SSS, ASA, SAS, RHS).
- Calculate lengths of similar figures.
- Use the relationships between areas of similar triangles, with corresponding results for similar figures and extension to volumes and surface areas of similar solids.

Algebra:

- To add, subtract, multiply and divide algebraic fractions with variable on the denominator.
- To simplify algebraic fractions and write as a single fraction

cylinders to calculate the volume of jars. Now try to derive the relation between dimensions(radius/height) of cylinders with their volumes

Enlarging a Picture and Scaling Up What is scale factor? • How do you find scale factor given two similar figures? Research on the application of scale factor to compare area and volumes of similar shapes

Make a list of points to be noted while adding, subtracting, multiplying and dividing algebraic fractions

Code breakers, jigsaw puzzle
https://www.transum.org/software/SW/Starter of the day/Students/Algebraic Fractions.asp?Level=3

revision/trigonometry/congruen cy

https://www.bbc.co.uk/bitesize/guides/zxmfmsg/revision/2

http://www.mathsmutt.co.uk/files/simcomp.htm
https://www.onlinemathlearning.com/prove-triangles-congruent.html

https://www.mathsisfun.com/a lgebra/fractions-algebra.html





Aim High Study Progress Programme Year 10 November 2021

		https://www.tes.com/teaching-resource/algebraic-fractions-codebreakers-11411609	https://www.youtube.com/wat ch?v=UAtxyHpttJI
Statistics	TOPIC: Collection of Data: Learning Objective: Form a hypothesis, identify problems that may arise with the statistical enquiry cycle (e.g. non-response of	Students can be given the opportunity to design questionnaires and conduct their survey at school during lesson time. These can be passed onto parents or teachers to critique and offer suggestions of improvement.	https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/4https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/1
	surveys, difficulty estimating the population or unexpected outcomes) and come up with strategies to help overcome these.	Investigate methods of collecting data in the real world, e.g. tax return, passport application, national census. Most data sources will have data that has already been cleaned (i.e. no formatting errors, missing entries, incorrect entries). Therefore, it is a good idea to give students an example of data with these problems. A	10132 ch00 prelims PB.indd (collins.co.uk) https://revisionmaths.com/gcse- maths-revision/statistics- handling-data/cumulative-
	TOPIC: Processing, representing and analysing data: Lesson Objective:	good example is the original Mayfield data set which is available on the Mathematics Emporium at www.edexcelmaths.com	<u>frequency-graphs</u>





	Construct, draw, use and understand Pictograms, Bar charts, Vertical line graphs, stem and leaf, Venn diagram, box plots and pie charts. Select the appropriate representation for the data. Construct, draw, use and understand	Solve questions of common mistakes among students for example, not knowing the difference between histogram and bar chart, drawing of pie chart using the table, analyse and interpret data	
	Frequency polygons, Histograms with equal and unequal class intervals		
Physics	 Turning effects of force To describe the moment of a force as a measure of its turning effect and give everyday examples. To describe, qualitatively, the balancing of a beam about a pivot. 	Pivot Force here produced by force	 www.skool.co.uk www.lslandphysics.com https://www.youtube.co m/watch?v=Bs9poMZp4t c http://www.bbc.co.uk/sc hools/gcsebitesize/scienc e/triple_aqa/using_physi





Chemistry	The Structure of Atom	 Plan and conduct an experiment for preparing pure crystals of NaCl. 	 http://www.docbrown.in fo/page01/ElCpdMix/Ele CmdMix2c.htm
		 Make a compilation of pictures of variety of turning effect of forces in everyday life using PADLET 	
	To apply the idea of opposing moments to simple systems in equilibrium.	 Two forces are causing the sea-saw to tip. The girls weight causes it to tip to the left, while her father provides a force a tip to the right: Investigate on how he can increase his turning effect. Use the ideas of stability and centre of mass to explain the following: Double- decker buses have heavy weights attached to their undersides. The crane has a heavy concrete block attached to one end of its arm, and others placed around its base. 	 cs make things work/m oments/revision/1/ https://hgphysics.com/gp h/c-forces/2-force-effects/1-moment/





November 2021

- State the relative charge and mass over each subatomic particle
- Define proton number and nucleon number.
- Draw atomic structure of atoms and ions

Atoms elements and compounds. Bonding

- Describe elements, compounds, mixtures (alloys) and to show ionic bonding between metals & non-metals.
- Describe the formation of ions by electron loss or gain

- ICT create a video documentary identifying uses of different apparatus or things of alloys used in our day today life.
- Research and present ideas on the development and the structure of the atom
- Discuss the limitations of each model using ICT/textbooks.
- Construct 3D model of Atom.
- create a chart with the following headings:
 Element, Number of Protons, Number of Neutrons, Atomic Mass, Atomic Number

ACTIVITY 1:

 Create a 3 D model of Nacl which shows giant ionic lattice structure

ACTIVITY 2:

- https://phet.colorado.ed u/sims/html/isotopesand-atomicmass/latest/isotopesand-atomicmass en.html
- www.creativechemistry.o rg.uk/gcse/documents/M odule5/N-m05-03.pdf
- http://www.chem4kids.c om/files/atom structure. html
- https://www.youtube.co
 m/watch?v=USV-S A NI
- http://ichemey.blogspot. com/2013/01/ionicbonding.html





November 2021

- To show ionic bonding between metal and non-metal atoms.
- To show covalent bonding between non-metal atoms,
- To show dot and cross structures for ionic and covalent compounds.
- Distinguish between ionic and covalent bonding and state properties
- Explain metallic bonding

- Research about Giant macromolecules and enlist their properties comparing with simple molecular and ionic compounds.
- Enlist various biological macromolecules.

ACTIVITY 3:

 Art - create a poster detailing the bonding in different molecules and compounds

ACTIVITY 4:

 Prepare a game to understand how someone can predict position of element in a periodic.

ACTIVITY 5:

• English - Write a short report on the usage and advantages of ionic and covalent compounds over one another.

- http://www.docbrown.in fo/page04/4 72bond.ht m
- https://www.youtube.co m/watch?v=HHT0S2Tpj8Q
- https://www.youtube.com/watch?v=S08qdOTd0w0
- https://www.scool.co.uk/gcse/chemistr y/chemicalbonding/reviseit/covalent-bonding





November 2021

• Research on the enzymes that are used as

2.0.001		Research on the enzymes that are asea as	iteepi// vv vv
	 To define the basic terms such as catalyst and enzymes. 	biofuels using biotechnology.	egsk.com/m ent/enzyme
	To describe the importance of	Elaborate on the type and working of the enzyme	<u>m</u>
	enzymes in all living organisms in terms of reaction speed.	Build a 3D working model of enzyme-inhibitor	 http://www chools/gcsel
	 To explain the specificity of 	activity.	nce/add oc
	enzymes and the enzyme reaction.	Research on a particular enzyme and its activity	ving growin v2.shtml
	 To investigate the factors 	at different pH and temperature. Collect	• https://biot
	affecting enzyme reactionRole of enzymes in	evidences and present it as a poster.	biofuels.bio om/articles/
	fermentation and indust	 Outline the use of microorganisms and 	4-6834-2-14
		fermenters to manufacture the antibiotic	https://yout
		penicillin and enzymes for use in biological	nG8W4
		washing powders	• http://www.
		Encourage the students to discuss the role of the	hools/gcsebi

- http://www.activescienc miniweb/cont nes/how do.ht
- w.bbc.co.uk/s sebitesize/scie ocr gateway/li ing/proteinsre
- otechnologyfor iomedcentral.c es/10.1186/175
- utu.be/0nwI0x
- w.bbc.co.uk/sc ebitesize/scienc e/add aga/proteins/prot einsrev3.shtml

Biology

Enzymes:





Read about the production of enzymes using fermentation process ad create a news blog on the same.	 http://babbledabbledo.c om/25-steam-projects- for-kids/ http://study.com/acade my/lesson/alcohol- fermentation-definition- equation-process.html https://www.megazyme. com/select-an- industry/fermentation- and-enzymes http://www.omicsonline.
	org/enzyme-production- by-fermentation- technology-scholarly- open-access-journals.php • https://www.tsijournals.c om/articles/enzyme- synthesis-by-





Food and Nutrition	Composition and value of the main foods in the diet- Sources of protein • (Pulses, legumes, dairy products, egg, meat, fish, poultry, nuts, oilseeds, alternative protein)	 When shopping for milk, what do you look for on the container? How do you store and care for milk products? Cook three different recipes using milk with different fat content. Represent your findings in a recipe booklet format with pictures of the cooked product. 	fermentation-methoda-review.pdf • https://www.eatforhealth.gov.au/food-essentials/five-food-groups • http://vikaspedia.in/health/nutrition/nutritive-value-of-foods/nutritive-value-of-cereals-and-millets
Economics	To evaluate how the knowledge of the PED of different consumers help firms to plan their pricing strategies	 Using the information given in the below link, find out how Dubai developers and landlords undertake various measures to stand out as buyers have plenty of choices with regards to real estate. 	https://www.google.ae/search? q=PED+and+planning+pricing+str ategies+in+the+firms+in+the+UA E&oq=PED+and+planning+pricin g+strategies+in+the+firms+in+th e+UAE&aqs=chrome69i57.2406





		http://gulfnews.com/business/property/incentiv es-and-pricing-strategies-in-real-estate- 1.2043208 Write a report on your findings.	0j0j7&sourceid=chrome&ie=UTF -8
Accounting	To explain the purpose of petty cash.	 Research on purpose of petty cash book and its Statement. Why is there a need to have a petty cash book when there is a cash book? 	 www.tutor2u.net Newspapers and Magazines Text Book
Business Studies	To Identify and explain the main features of different forms of Business Organization.	 Research on purpose of petty cash book and its Statement. Why is there a need to have a petty cash book when there is a cash book? 	 www.tutor2u.net Newspapers and Magazines Text Book





Travel and Tourism	 To investigate and analyze the role of UAE Government in Promoting a Potential Tourism Destination. 	Many Destinations have TICs (Tourist Information Centres). Name three services usually provided in TICs and briefly explain why visitors to the destination find each of these services useful.	• www.wto.org
Sociology	Topic: Family Learning Objective: To analyse the various sociological functions of family	Debate upon the functions and loss of functions of the family	https://www.youtube.com/watc h?v=TttPOhgTP9g https://www.youtube.com/watc h?v=prHCBereGdE
Psychology	Topic: Memory-How does your memory work? Learning Objectives: To describe the stages of information processing approach and how it is linked to computers.	Use memory experiments to illustrate the stages of memory. E.g. serial position curve, Brown- Peterson technique. There are many more. Creating mind maps on the theories. Debate on the applications and its usefulness.	Cambridge GCSE Psychology Text Book. What is Information Processing Theory? - LearnUpon Information Processing Theory Explained - YouTube





	To describe the duration and capacity of STM and LTM and interpret data from bar charts and histograms.		
Geography	Topic: Rivers Lesson objective: To examine the erosional, depositional and transpotational features of a river.	Create a poster showing the erosional, depositional and transpotational features of a river.	Cambridge IGCSE Geography Textbook
History	Paris Peace Conference	Revise and answer on edpuzzle- aims of BIG 3	https://edpuzzle.com/media/5cb 38a011fe46b4102222d98 https://edpuzzle.com/media/5c1 7dfafc291cd40de2aa08d
Global Perspectives	Individual Report	Based on the feedback given by the teacher on the topics selected by you, create a synopsis of 200 words on your selected topic	As per chosen topics, resources would vary. However, use authentic sources and avoid Wikipedia





Environmental Management	Agriculture and the environment	Use various online resources to investigate the impact of agricultural practices on the environment. Summarise the topic in the form of flash cards that can be used for revision.	https://www.worldwildlife.org/industries/sustainable-agriculturehttps://www.nationalgeographic.org/article/environmental-impacts-agricultural-modifications/https://ecampusontario.pressbooks.pub/environmentalscience/chapter/chapter-24-agriculture-
			hapter/chapter-24-agriculture- and-the-environment/
ICT	TOPIC Computer Networking	Develop a project, as a real-life scenario of a company, on Computer Networking, highlighting • Network Devices	https://www.saylor.org//Comp uter-Networking-Principles- Bonaventure





	Students will be able to analyse various types of networks Students will be able to define and illustrate how to configure a small network Student will be able to list out networking issues	 IP and the MAC Wi-Fi Bluetooth Types of internets and networks Network Issues and communications Also discuss and help the child to research on how to set up and configure a small network. Encourage the child to research and read online to get information and write in their own words after understanding.	https://www.memorize.com/grade-10-computer-networking
Computer Science	Topic: Logic Circuits Learning Objective:	A logic gate implements a Boolean function and thus performs a logical operation on one or several logic	www.youtube.com/watch?v= 7 6g8EM4DVU
	Students will be able to apply the functions of NOT, AND, OR, NAND, NOR and XOR gates,	inputs in order to produce a single logic output. A logic gate often uses diodes or transistors that act like electronic switches. The output of one gate can be wired to the inputs of one or more other gates.	www.softpedia.com/get/Others/ Home-Education/Logic-Gate- Simulator.html





	including the binary output produced from all the possible binary inputs. Students will be able to produce truth tables for given logic circuits.	 Encourage your child to design the digital circuit system of the vehicle with two sensors as input. Also ask them to discover the practical use of the circuit. Motivate your child to construct a truth table for the digital circuit system they developed. Discuss with your child about design procedures for designing combinational circuits. Support your child to explore different online applications for developing logic circuits. 	
Physical Education	To describe the circulatory system and understand how it works.	 Draw a diagram showing the heart and the two circuits that the blood travels round. Find about red & white blood cells and platelets (use your textbooks, other books in the library, CD ROMS or internet). In your own words, describe the function of each of the 3 blood cells. 	www.teachpe.com www.britishschoolofboston.org www.cie.org.uk www.innerbody.com www.physicaleducation.co.uk





Art	AO2 AND AO3	TO investigate, experiment with your ideas, and gather	www.studentartguide.com
		visual information about the COMPOSITION THAT YOU	
		WILL develop as your final work on a A2 size.	
French	Une semaine typique	SPEAKING: prepare a role play according to the given	www.french-games.net
	one semane typique	instructions:	www.quizlet.com
	 To exchange information about 	Candidat(e) : vous-même Professeur : employé(e) au	www.language-gym.com
	daily routine and describe a	magasin de vélos	www.tv5monde.org
	typical day	Vous allez au magasin de vélos. Vous voulez louer un	
	To understand information about	vélo.	
	shops and services	1 (i) Saluez l'employé(e) ; et	
	shops and services	(ii) Dites ce que vous voulez faire.	
		2 Dites pour combien de jours vous voulez louer le vélo.	
		3 Écoutez l'employé(e) et choisissez où vous voulez faire	
		du vélo.	
		4 (i) Remerciez l'employé(e) ; et	
		(ii) Demandez le prix.	





Aim High Study Progress Programme Year 10 November 2021

		5 Dites où vous logez en ville (par exemple : hôtel ?	
		auberge de jeunesse ?).	
		READING AND LISTENING COMPREHENSION:	
		https://apprendre.tv5monde.com/fr/exercices/a1-	
		debutant/ca-vous-plait	
		https://www.francaisfacile.com/exercices/exercice-	
		francais-2/exercice-francais-47093.php	
		https://www.francaisfacile.com/exercices/exercice-	
		francais-2/exercice-francais-48720.php	
		https://www.francaisfacile.com/exercices/exercic	
		e-francais-2/exercice-francais-48733.php	
Arabic (Arabs)	قصيدة أنا من بدل بالصحب الكتابا2- قصة -1	. ّسجل بعض خصائص الشعر الحديث كما تراها في النص -	
	الخبز	اكتب بحثًا عن أغراض الشعر في العصر الحديث -	https://www.youtube.com/watc
	صيغ المبالغة -3	. قارن بين نصين مستنتجًا السمات المختلفة والمتشابهة فيهما -	h?v=ChyRCd-65hA
	الاستعارة -4	حدّد القيم الواردة بالنص وناقشها مع مجموعتك -	https://www.youtube.com/watc
	الكناية -5	.حلّل النص الأدبي تحليلا أدبيا -	h?v=fbfdXEKPDSA
	Learning objectives:	دلل على فكرة النص من خلال الألفاظ والتراكيب والأساليب -	II. VIDIONENI DON





Aim High Study Progress Programme Year 10 November 2021

ان يحلل النص الشعري تحليلا فكريا
.ونقديًا وبلاغيًا
أن يوضح الفكرة الرئيسة والأفكار •
.الفرعية
أن يستنتج الدلالات التعبيرية
أن يستنتج القيم الواردة بالنص
أن يحلل المغزى من القصة والدلالة - •
عليه
أن يفسر دور المكان في التأثير على
العقدة
أن يحدد أوزان صيغ المبالغة القياسية
أن يستخرج صيغ المبالغة من النصوص
أن يحلل الخط الزمني لتصاعد الأحداث
أن يميز بين نوعي الاستعارة •
أن يطبق الاستعارة والكناية على
نصوص من القرآن والشعر

أن حال النحة الشِّحيّة تحللًا فكيّال

حلل عاطفة الشاعر والخيال في القصيدة يحلل القصة إلى عناصرها الفنية يحدد استراتيجيات الكاتب في تلك القصة يحلل تأثير المكان على تصاعد الأحداث يحلل المغزى من القصة مع التدليل عليه من أحداث القصة يفسر الظاهرة المجتمعية التي تعالجها القصة يوضح دور الوصف في حبكة القصة مع الأمثلة يسترجع اشتقاق اسم الفاعل من الثلاثي وغير الثلاثي يحدد الأوزان القياسية لصيغ المبالغة يمثل للأوزان غير القياسية بالأمثلة يستخرج صيغ المبالغة من الأمثلة يستخرج صيغ المبالغة من الأمثلة يطبق الاستعارة بنوعيها والكناية في قوة المعنى -

https://www.youtube.com/watch?v=9EYkUJQYoOI

https://www.youtube.com/watch?v=k7 UoisX4no

https://www.youtube.com/watch?v=O RnbfRFz8A

https://www.youtube.com/watch?v=joCob 4quhc





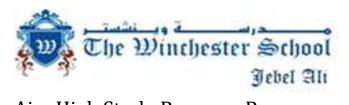
	1		
Arabic (Non-			
Arabs)	الطاقة والحفاظ على البيئة	The students can create banners on how to maintain	https://www.youtube.com/watc
	الأهداف	energy.	<u>h?v=mAevY1UUB-k</u>
	أن يوضح التلاميذ أنواع الطاقة	The students can create a report about a visit to Masdar	https://www.youtube.com/watc
	أن يصنف التلاميذ مصادر الطاقة	city.	h?v=z0a8Cz08-OA
	أن يشرح التلاميذ العلاقة بين الطاقة والتلوث	The students can create comments on pieces of articles	https://www.youtube.com/watc
	أن يصيغ التلاميذ مقالاً عن الطاقة	in newspaper.	<u>h?v=XlsMk-Prp4o</u>
		The students can create a magazine on energy.	https://www.youtube.com/watc
		The students can share videos about energy.	<u>h?v=zuQAaRKDFaE</u>
Islamic	-المدارس الفقهية – سكينة بنت الحسين	يحرص على التقوى والاخلاص في كل أمور حياته	https://www.youtube.com/watc
Education	:الأهداف	يبحث عن أثر المرأة المتعلمة في المجتمع	h?v=JkRRglqgWSE
(Arabs)	يوضح مفهوم المدارس الفقهية	يقارن بين مدرسة المدينة ومدرسة العراق	https://www.youtube.com/watc
	يحلل أسباب ظهور المدارس الفقهية-	يكتب بحثا عن سكينة بنت الحسين	h?v=QfhQGnNzjZE
	يقارن بين المدارس الفقهية	يكتب بحثا عن دور المرأة في الاسلام	
	أن يوضِح نسب سكينة بنت الحسين (رحمها		
	(الله		





	أن يستخلص أثر النشأة الدينية في حياة سكينة بنت الحسين أن يبدي رأيه في شخصية سكينة بنت الحسين		
Islamic Education (Non-Arabs)	The mind in Islam -Deduce aspects of honouring the mind in Islam -Explain the absence of controversy between Shariah and the mind -Infer the effect of reading on mind development 2. Stages of collection the Quraan - able to explain the stages of collecting AL Quran. -Compare the efforts of Abu Bakr As Siddiq in serving Al Quran to those of Uthman R.A.	 Design an awareness- raising bulletin showing that Islam prohibits aggression against the intellect and denying people its benefits. Search and share how important is the development of human mind for a balanced society. Write an essay or a journal report about Miracles in Al Quran Al Kareem. Write an essay to a friend convincing him why Muslims believe that Al Quran is not changed unlike previous book 	https://www.youtube.com/watch?v=xh0vV69SuP4 https://www.youtube.com/watch?v=eIRVOfTZrls











Moral Education	Realising the Value of Money To discuss how to avoid financial complications, citing examples of financial mismanagements, greed and poor governance.	 Identify one short-run goal and one long-run goal that would need balancing your budget. Imagine you earn AED 500 per month. Would you still budget your spending to achieve your long-run goal/short-run goal? Justify. 	https://www.youtube.com/watch?v=TVLhPcdo-j8
--------------------	--	---	---