



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/features/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 home schooling. Name some famous celebrities who were home schooled. Share your opinion on home schooling. Create a brainstorm for the above points mentioned. 	https://www.khaleejtimes.com/nation/education/why-more-uae-parents-are-homeschooling-their-kids
English Literature	To introduce learners to the varied styles of Carol Ann Duffy's writing.	 Refer to the link provided. Read through the poems of Duffy, as it forms your external reading. Analyse and compare the themes presented in these poems, to the ones already attempted in class. 	https://www.scottishpoetrylibrary.org. uk/poem/anne-hathaway/





Mathematics (Accelerated)	Bearings and 3D Trigonometry Learning Objectives: Construct scale drawings and interpret and use bearings. Describe bearings Calculate bearing of a point with respect to another. Apply sine and cosine rule to solve multistep bearings problems	 Research on the application of bearings to real life Create coded messages using bearings Make up some coded messages using bearings. On this grid are all the letters of the alphabet. Imagine we wanted to send the message the dot in the drawing. The need to give distance to your task is code for 	https://www.youtube.com/watch?v=1 rHHIp_YTmE https://www.youtube.com/watch?v=K fF6rH1VGzs https://www.youtube.com/watch?v=f vSTy_BsZYI https://www.youtube.com/watch?v=h Y13T95thwI
Mathematics (Extended)	Variation To calculate an unknown quantity from quantities that vary in direct or inverse variation Congruence & Similarity To recognise congruent shapes	 Research and differentiate between variation and proportion. Take two identical cylindrical jars. Measure its dimensions. Apply your knowledge of volume of cylinders to calculate the volume of jars. Now try to derive the relation between dimensions(radius/height) of cylinders with their volumes 	https://www.mathsisfun.com/alge bra/directly-inversely- proportional.html https://www.khanacademy.org/tag /direct-and-inverse-variation





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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.

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

https://revisionmaths.com/gcse-maths-

revision/trigonometry/congruency https://www.bbc.co.uk/bitesize/guide s/zxmfmsq/revision/2

http://www.mathsmutt.co.uk/files/sim comp.htm https://www.onlinemathlearning.com/

https://www.onlinemathlearning.coiprove-triangles-congruent.html





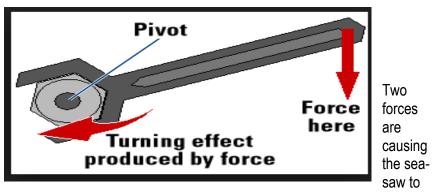
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Physics

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.

To apply the idea of opposing moments to simple systems in equilibrium.



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.

Make a compilation of pictures of variety of turning effect of forces in everyday life using PADLET.

www.skool.co.uk

www.lslandphysics.com

https://www.youtube.com/watch?v=Bs9poMZp4tc

http://www.bbc.co.uk/schools/gcsebit esize/science/triple_aqa/using_physi cs_make_things_work/moments/revi sion/1/

https://hgphysics.com/gph/c-forces/2-force-effects/1-moment/





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	State the relative charge and mass over each subatomic	 Plan and conduct an experiment for preparing pure crystals of NaCl. 	CpdMix/EleCmdMix2c.htm https://phet.colorado.edu/sims/html/i
	particle Define proton number and nucleon number. Draw atomic structure of atoms and ions	 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 	sotopes-and-atomic- mass/latest/isotopes-and-atomic- mass_en.html www.creativechemistry.org.uk/gcse/ documents/Module5/N-m05-03.pdf
	Atoms elements and compounds.	 Discuss the limitations of each model using ICT/textbooks. Construct 3D model of Atom . create a chart with the following headings: Element, Number of 	http://www.chem4kids.com/files/atom
	Describe elements, compounds, mixtures (alloys) and to show ionic bonding between metals & non metals.	 Protons, Number of Neutrons, Atomic Mass, Atomic Number ACTIVITY 1: Create a 3 D model of Nacl which shows giant ionic lattice 	_structure.html https://www.youtube.com/watch?v=U SV-S A NI
	Describe the formation of ions by electron loss or gain To show ionic bonding between	 structure ACTIVITY 2: Research about Giant macromolecules and enlist their properties 	http://ichemey.blogspot.com/2013/01 /ionic-bonding.html
	metal and non-metal atoms. To show covalent bonding	 comparing with simple molecular and ionic compounds. Enlist various biological macromolecules. 	http://www.docbrown.info/page04/4_72bond.htm

ACTIVITY 3:

Activity 1:

http://www.docbrown.info/page01/El leCmdMix2c.htm et.colorado.edu/sims/html/i nd-atomicst/isotopes-and-atomictivechemistry.org.uk/gcse/ s/Module5/N-m05-03.pdf .chem4kids.com/files/atom .html

Chemistry

The Structure of Atom

between nonmetal atoms,





	To show dot and cross structures for ionic and covalent compounds. Distinguish between ionic and covalent bonding and state properties Explain metallic bonding	 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. 	https://www.youtube.com/watch?v=H HT0S2Tpj8Q https://www.youtube.com/watch?v=S 08qdOTd0w0 https://www.s- cool.co.uk/gcse/chemistry/chemical- bonding/revise-it/covalent-bonding
Biology	Enzymes: To define the basic terms such as catalyst and enzymes. To describe the importance of enzymes in all living organisms in terms of reaction speed. To explain the specificity of enzymes and the enzyme reaction.	 Research on the enzymes that are used as biofuels using biotechnology. Elaborate on the type and working of the enzyme Build a 3D working model of enzyme-inhibitor activity. Research on a particular enzyme and its activity at different pH and temperature. Collect evidences and present it as a poster. Outline the use of microorganisms and fermenters to manufacture the antibiotic penicillin and enzymes for use in biological washing powders 	http://www.activesciencegsk.com/ miniweb/content/enzymes/how_dohtm http://www.bbc.co.uk/schools/gcs_ebitesize/science/add_ocr_gatewa_y/living_growing/proteinsrev2.sht_ml





To investigate the factors affecting enzyme reaction. Role of enzymes in fermentation and industries	 Encourage the students to discuss the role of the fungus Penicillium in the production of antibiotic penicillin& its uses in daily life. Read about the production of enzymes using fermentation process ad create a news blog on the same. 	https://biotechnologyforbiofuels.biomedcentral.com/articles/10.1186 /1754-6834-2-14 https://youtu.be/0nwl0xnG8W4 http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/proteins/proteinsrev3.shtml http://babbledabbledo.com/25-steam-projects-for-kids/http://study.com/academy/lesson/alcohol-fermentation-definition-equation-process.html https://www.megazyme.com/select-an-industry/fermentation-and-enzymes http://www.omicsonline.org/enzyme-
		<u>production-by-fermentation-</u> <u>technology-scholarly-open-access-</u> journals.php





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			https://www.tsijournals.com/articles/enzyme-synthesis-by-fermentation-methoda-review.pdf
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. 	https://www.eatforhealth.gov.au/fo od-essentials/five-food-groups http://vikaspedia.in/health/nutritio n/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. http://gulfnews.com/business/property/incentives-and-pricing-strategies-in-real-estate-1.2043208 Write a report on your findings. 	https://www.google.ae/search?q=PE D+and+planning+pricing+strategies+ in+the+firms+in+the+UAE&oq=PED +and+planning+pricing+strategies+in +the+firms+in+the+UAE&aqs=chrom e69i57.24060j0j7&sourceid=chrom e&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.	 Describe the main features of sole traders and Partnerships. Which is the best form of business organisation in context of globalization? Why business cannot keep profit as their sole motive to be successful? Students to find out real life example of businesses in UAE- one each for the forms of business organization. 	www.bized.co.uk 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	Research Methods	Create a power point presentation to include: Introduction Key sociological research methods Brief summary of each.	www.sociology .org.uk Any other relevant source.





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	To examine the struct- uralist and interpretivis- t approaches; the individual, identity and societ y.		
Psychology			Edexcel textbook, useful websites: https://www.verywellmind.com/how- to-conduct-a-psychology- experiment-2795792
	Development		https://www.up.edu/learningcommon s/files/guide-to-writing-a-psychology- research-paper.pdf
			https://writingcenter.unc.edu/tips- and-tools/psychology/
		Create an alternative study of Piaget's three mountain task.	https://wordvice.com/how-to-present-study-limitations-and-alternatives/





Geography	Coasts and Weather	 Students to Research on the impact of coasts due to variation in the weather. 	http://www.polish.polar.pan.pl/ppr28/ PPR28-123.pdf
History	Collapse of international by 1939	 Students will research about the causes for the collapse of International peace by 1939 and answer the questions below. https://www.youtube.com/watch?v=Q78COTwT7nE Which was more important in causing the Second World War: the flaws in the Treaty of Versailles or Hitler's foreign policy? Create a political cartoon/ comic strip explaining the contribution of Hitler to the collapse of international peace by 1939. 	https://prezi.com/ozepvjbz9jzk/why-did-international-peace-collapse-by-1939/ https://www.ducksters.com/history/world_war_ii/
Global Perspectives	Education for All	 Discuss with the child the following questions:- What do I want from my education? How much value do you attach to your education? Why? What evidence is there to support this? What is my dream career? How will I get there? What are your personal aspirations and goals and how are they linked to your education? Why are issues in education considered to be global issue? 	Global Perspective Text book for IGCSE





Environmental Management	ENERGY & THE ENVIRONMENT	 Use the internet to investigate why fossil fuels are important. Draw labelled diagrams to highlight similarities and differences between the formations of coal and oil/natural gas. Create a mind map of the renewable and non-renewable energy resources and how each of the energy resources is used to generate electricity Produce a development plan[mind map] for a small town on strategies for efficient management of energy resources. Research on the causes. and impacts of oil pollution on marine ecosystem. How would an oil spill affect this food chain? 	https://revise.znotes.org/cie- igcse/environmentalmanagement- 0680 https://www.ucsusa.org/clean- energy/renewable- energy/environmental-impacts
ICT	Topic – Input and Output devices Lesson Objective – To explore the Input Output devices and create a power point presentation on it	 Help your child to research on the various range of input devices and output devices, used around UAE. Create a power point presentation, specifying following concepts: input devices and their uses identify input devices and their uses, e.g. keyboard, numeric keypad, pointing devices (such as mouse, touchpad, tracker ball), remote control, joystick/driving wheel, touch screen, scanners, digital cameras, 	https://mrlawsonsclassroom.weebl y.com/ www.ictlounge.com www.aceit-training.com https://www.youtube.com/watch https://www.udemy.com/excel_qui ckstart/





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microphone, sensors (general), temperature sensor, pressure sensor, light sensor, graphics tablet, video camera, web cam

- direct data entry and associated devices
 - describe direct data entry and associated devices, e.g. magnetic stripe readers, chip and PIN readers, Radio Frequency Identification (RFID) readers, Magnetic Ink
- Character Reader (MICR), Optical Mark Reader (OMR), Optical Character Reader (OCR), bar code reader
 - identify the advantages and disadvantages of any of the above devices in comparison with others
- output devices and their uses
 - identify output devices and their uses, e.g. CRT monitor, TFT/LCD monitor, IPS/LCD monitor, LED monitor, touch screen (as an output device), multimedia projector, laser printer, inkjet printer, dot matrix printer, wide format printer, 3D printer, speakers, motors, buzzers, heaters, lights/lamps
 - describe the advantages and disadvantages of any of the above devices





		 The power point presentation should be well designed, using special effects and animations. Use a master slide to specify unifOrm settings through the presentation. 	
Computer Science	Topic: Logic Circuits Learning Objective: Students will be able to define the functions of NOT, AND, OR, NAND, NOR and XOR gates, including the binary output produced from all the possible binary inputs. Students will be able to produce truth tables for given logic circuits. Students will be able to recognise and use the standard symbols used to represent logic gates.	 A logic gate implements a Boolean function and thus performs a logical operation on one or several logic 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. 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 	www.youtube.com/watch?v= 76g8E M4DVU www.softpedia.com/get/Others/Hom e-Education/Logic-Gate-Simulator.html





Physical	Respiratory System	Practise drawing flow diagrams of the pathway of air into and out of the	www.bbc.co.uk
Education	Pathway of air and gaseous	body.	
	exchange at the alveoli		www.teachpe.com
	Mechanics of breathing,		
	breathing volumes and minute		
	ventilation		
	Circulatory System		
	Components of blood		
	Cardiac output		
	Cardiac output, haemoglobin and		
	blood vessels	Practise drawing and labelling diagrams showing the structure of the	
	Heart structure and function	heart and the flow of blood around the body.	
	Energy supply and the effects of		
	exercise on the body:		
	Aerobic and anaerobic	Create a table to identify the advantages and disadvantages of aerobic	
	respiration	and anaerobic respiration during exercise.	
	Recovery, Short term and long-	Practise listing all the effects of short-term and long-term exercise on the	
	term effects of exercise.	human body.	





Art	AO1, AO2	 To reflect on personal ability to record from direct observation and personal experience To identify and solve problems in visual and/or other forms. Refinement and development of ideas and personal outcomes. 	www.studentartguide.com
French	 My eating habits: Plates/ variety of food/balanced foof Les articles partitifs/ les adjectifs irréguliers/ les comparaisons/supe rlatifs To revise the important rules of grammar of the previous topics. 	 Speaking: Décrire des repas typiques, aussi donnez votre avis/opinion à propos la nourriture internationale et parler de ce qui constitue une alimentation équilibrée. Writing: Décrire des repas typiques, aussi donnez votre avis/opinion à propos la nourriture internationale et parler de ce qui constitue une alimentation équilibrée. Reading:	Useful links and website: ➤ My eating habits: ■ https://www.france-hotel-guide.com/fr/blog/plats-francais-typiques/ ■ https://www.marmiton.org/recettes/album1324399/cuisine-francaise-65-recettes-traditionnelles-0.html#p1 ■ https://www.santemagazine.fr/alimentation/acheter-et-cuisiner/repas-equilibre/comment-equilibrer-son-alimentation-172338





		 https://fittrack.fr/blogs/blog/pourquoi-manger-equilibre-est-important Listening: https://lebaobabbleu.com/2018/05/30/3o-lalimentation-et-lasante/ https://capsurlefle.com/2017/10/02/lalimentation-des-francais-a2/ Grammaire: https://oraprdnt.uqtr.uquebec.ca/pls/public/docs/GSC2213/F4861 68017 Les partitifs exercices et corrig .pdf https://www.francaisfacile.com/exercices/exercice-francais-2/exercice-francais-54173.php https://www.francaisfacile.com/exercices/exercice-francais-2/exercice-francais-11886.php https://francais.lingolia.com/fr/grammaire/les-adjectifs/le-comparatif-et-le-superlatif/exercices 	 https://fittrack.fr/blogs/blog/pourquoi-manger-equilibre-est-important Vocabulaires: https://www.lepointdufle.net/p/lexique_la_nourriture.htm https://lebaobabbleu.files.wordpress.com/2014/04/1-lexique-de-la-nourriture.pdfhttps://www.lexique-alimentation-sante.com/definition/equilibre-alimentaire/
Arabic (Arabs)	كيفية تقدير الذات :TOPIC نص معلوماتي Learning objectives:	يقرأ المتعلم النص المعلوماتى بعمق وشمولية يحدد الفكر الرئيسية للنص من خلال تحليل المعلومات الصريحة والضمنية مستشهدابمصادر متنوعة من الأدلة التى تدعم تحليله محددا نوعها مثل (إحصاءات وأرقام وأدلة منطقية وتجارب ومواقف	https://www.youtube.com/watch?v=0 u7IH9Hf00s





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أن يحدد الطالب الفكرة الرئيسة والأفكار الفرعية . أن يحلل الطالب النص تحليلاً أدبيًا. - أن يستنتج خصائص النص TOPIC: قصة

الرجل العجوز عند الجسر Learning objectives: - أن يحدد عناصر القصّة الفنية. - أن يحدد المعنى المناسب للكلمات متعددة المعاني من خلال السياق. - أن يكتب قصّة قصيرة يعيد فيها بناء القصّة الواردة. القراءة المثمرة :TOPIC

Learning objectives: أن يقدم عرضا شفويا معلوماتيا مستخدما وسائل مرئية داعمة - أن ينظم العرض تنظيما جيدا القراءة الصامتة

الفهم العام من خلال المناقشة والحوار والعصف الذهنى حول ما جاء فى القصة أعمق فهمى عن طريق تقسيم الطلاب الى مجموعات تتناقش حول (أحداث القصة –والفكر الواردة - الشخصيات – معجم القصة –وضع نهاية مختلفة للقصة – خصائص مدرسة أدب الخراب – واجبنا تجاه الشعوب المنكوبة – نقد القصة)

https://www.youtube.com/watch?v=J 1PEBne6p_c





Islamic Education (Arabs)	المدارس الفقهية – سكينة الحسين- بنت الحسين- Learning objectives: عوضح مفهوم المدارس الفقهية عدل أسباب ظهور المدارس الفقهية الفقهية قارن بين المدارس الفقهية أن يوضح نسب سكينة بنت الحسين أن يستحلص أثر النشأة الدينية في حياة سكينة بنت الحسين أن يبدي رأيه في شخصية سكينة بنت	يحرص على التقوي والإخلاص في كل أمور حياته يبحث عن أثر المرأة المتعلمة في المجتمع يقارن بين مدرسة المدينة ومدرسة العراق يكتب بحثا عن سكينة بنت الحسين يكتب بحثا عن دور المرأة في الاسلام يكتب بحثا عن دور المرأة في الاسلام	https://www.youtube.com/watch?v=J kRRglqgWSE https://www.youtube.com/watch?v= QfhQGnNzjZE
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Islamic Education (Non Arabs)	TOPIC – Allah's unparalleled support to believers (Surat Al-Qasas)	Create a power point on the ways by which we can gain Allah's support and love.	https://www.youtube.com/watch?v= MYhCCVFzXTI
	To evaluate how to gain Allah's support and love.		
	Types of Sunnah of the prophet pbuh Students will be able to To apply what is meant by recording Sunnah Apply Phases of recording Sunnah Distinguish between types of Hadeeth volumes.	Create ppt on the types of Sunnah by giving some examples for each.	https://www.youtube.com/watch?v=n IZn1ItJ4sI
	The Mind in Islam To clarify the aspects of honoring the mind in Islam		





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To analyse the benefits of having Allah's support in our life.

To Explain the absence of controversy between Shariah and the mind

To Infer the effect of reading on mind development

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.





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Moral Education	Dealing with Global Ethical Challenges	How does the global community deal with the ethical challenges it is facing?	https://bmcmedethics.biomedcentral. com/articles/10.1186/1472-6939-16- 4
			_