



Area for learning	Focus	Activities	Useful Websites/Apps
English 1st Language	 To employ persuasive techniques while writing a speech. To identify the audience links and formal language employed in a speech. 	 Watch the speech provided in the link. Research and discuss about the speaker in the given link with your child. Share what makes the speech so motivating and persuasive 	https://www.youtube.com/watch ?v=IYGGpc2mMno
English 2 nd Language	 To enhance formal sentence structures. To embed the form and structure of an article. 	 Read all the articles provided in the links. Discuss the content of the article and the extent to which you agree or disagree with the same. Identify formal sentence structures in the article and with your child change the sentences to informal sentences. Identify and annotate different aspects of the articles for a better understanding of structure and form of the same. 	https://www.khaleeitimes.com/ed itorials-columns/dont-let-worries-worry-you-work-with-them https://www.khaleeitimes.com/ed itorials-columns/remember-all-millennials-are-not-narcissists https://www.khaleeitimes.com/ed itorials-columns/there-are-





			lessons-to-learn-from-superhero- movies
English Literature	To introduce learners to the art of satire and re-telling of narratives.	 Visit the link provided and read the poems composed by Roald Dahl. Through a Venn diagram, compare and contrast the original texts to the re-telling of the same. Attempt a similar task using a fairy tale of your choice. 	https://www.poemhunter.com/i/e books/pdf/roald dahl 2004 9.pdf
Mathematics	 Trigonometry: Calculate bearing of a point with respect to another Find angle of elevation /depression in word problems Apply sine rule and cosine rule in calculating missing side /angle in non right angled triangles. Calculate area of a triangle using the formula, ½ ab Sin C 	Research on the real-life applications of Trigonometry. Present your findings using power point/ video/ Prezi /poster. Create notes/formula booklet on Trigonometric concepts. Include examples and figures too.	www.mathsisfun.com/algebra/trig onometry.html www.mathsteacher.com.au/year1 0/ch15 trigonometry/12 elevatio n depression/23elevdep.htm https://www.bbc.com/bitesize/gui des/zqwhity/revision/1 https://www.cimt.org.uk/projects /mepres/step-up/sect4/index.htm





	 Apply Trigonometry in calculating missing length/ angle in 3D shapes. Draw Sine and Cosine curves Solve simple Trigonometric equations. 		https://www.youtube.com/watch ?v=JJMZJFWMrpM www.mathsisfun.com/algebra/trig -sin-cos-tan-graphs.html www.bbc.com/bitesize/guides/zpk dd2p/revision/2
	 Probability: To draw probability tree diagram To calculate probabilities of independent and mutually exclusive events using tree diagrams 	Write down the all possible outcomes when you toss a coin and roll a dice. What is the probability of getting a heads and a prime number?	https://www.mathsisfun.com/data/ a/probability-tree-diagrams.html
Physics	 Characteristics of the three kinds of emission Identify α, β and γ-emissions by recalling – their nature 	Research on: • The means of detection α , β and γ -emissions. Research on:	Properties: www.bbc.co.uk/schools/gcsebitesi ze/science/ocr gateway pre 201 1/living future/4 nu clear radiation1.shtml





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- their relative ionising effects
- their relative penetrating abilities
- (β+ are not included, β-particles will be taken to refer to β-)
 - Radioactive decay
- Use equations involving nuclide notation to represent changes in the composition of the nucleus when particles are emitted

Half-life

 Use the term half-life in simple calculations, which might involve information in tables or decay curves

Atomic model

- Create a list of questions based on Bloom's taxonomy to Practice balancing of nuclear reactions.
- Extend to work from data involving long half-lives.
- Use a radioactive decay simulation exercise and if possible an experiment with a Geiger counter and short half-life isotope to plot decay curves.

Research on:

 The applications of gamma radiations and how it is used in Medicine www.youtube.com/watch? v=Qlb5Z8QBpcI

Radioactivity:

- http://fiziknota.blogspot.com/2010/01/radioa ctivity.html
- www.youtube.com/watch?v= T7NhgaJCg5A
- www.youtube.com/watch?v= fToMbj3Xz2c
- www.youtube.com/watch?v= Tp2M9tndGG0
- www.youtube.com/watch?v= IP57gEWcisY
- www.youtube.com/watch?v= sRPejoNktKE





Chemistry	 Topic: Organic chemistry The aim of this activity is to describe naming of organic compounds using rules of nomenclature. 	 Make a 3-D model or a model using a play dough to show the structures and bonding of alkanes and alkenes indicating the differences between alkanes and alkenes. 	 http://chemguide.co.uk/ba sicorg/conventions/names. html
	 Describe the structure of an atom in terms of a positive nucleus and negative electrons Nucleus Describe the composition of the nucleus in terms of protons and neutrons State the charges of protons and neutrons Use the term proton number Z Use the term nucleon number A 		 www.youtube.com/watch?v= EboWeWmh5Pg





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	 To describe characteristic features of homologous series and describe the structures of and alkenes. To describe isomerism with examples of alkanes. To describe chemical properties and chemical reactions of alkenes and also a test for saturated and unsaturated compounds. 	 on the topic nomenclature and structures of alkanes and alkenes. Create any 3 questions using blooms taxonomy on the topic homologous series. 	ools/gcsebitesize/science/t riple edexcel/organic che mistry/organic chemistry/ revision/5/ http://chemguide.co.uk/ba sicorg/isomerism/structura l.html
Biology	 Energy flow: To describe the flow of energy through living organisms including light energy (sun) and chemical energy and transfer of this energy to the environment. 	to create an energy now diagram.	 https://www.khanacademy.or g/science/biology/ecology http://www.bbc.co.uk/schools /gcsebitesize/science/add_gat eway_pre_2011/greenworld/e nergyflowrev2.shtml





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- To explain the inefficiency of energy transfer between the trophic levels
- To describe and interpret different ecological pyramids.
- To describe different nutrient cycles and to know their importance.
- To identify and explain the factors affecting the growth curves.
- To interpret graphs and diagrams of human population growth.

<u>Biotechnology</u> and <u>genetic</u> engineering:

- To describe the use of bacteria in biotechnology and genetic engineering.
- To describe the role of anaerobic respiration of yeast in production of biofuels and in bread-making.

- Encourage the students to create a jigsaw puzzle on ecological pyramids
- Encourage students to use simulations to learn more about the growth curves and limiting factors.
- Consider the real-life examples to interpret graphs and diagrams of human population growth.
- Encourage the students to write an article on the advantages of the genetically engineered products.
- Motivate the students to apply the concepts on anaerobic respiration in their daily lives.
- Research on the uses of biofuels over the fossil fuels
 Research on the production of human insulin & golden rice

- http://www.ck12.org/earthscience/Flow-of-Energy-in-Ecosystems/lesson/Flow-of-Energy-in-Ecosystems-HS-ES/
- https://www.biologycorner.co m/lesson-plans/ecology/
- http://content.teachengineering.org/content/mis /activities/mis population/mis population activity1 worksheet v2 ccs tedl.pdf
- http://www.biotechonweb.co m/Applications-of-Biotech.html
- https://www.slideshare.net/Fy zahBashir/applications-ofbiotechnology
- http://www.littletree.com.au/ dna.htm
- http://www.goldenrice.org/





	 To explain the role of fungi and working of fermenter in the production of penicillin. To describe the use of pectinase and biological washing powders. To outline the production of a human protein using genetic engineering. To state the applications/examples of genetic engineering. 		
Food and Nutrition	Cooking of food Principles involved in the different methods of cooking — baking, boiling, braising, cooking in a microwave oven, frying, grilling, poaching, pressure cooking, roasting, simmering, steaming, stewing, use of a slow cooker.	 Use different visual aids to show how water, light and air affect nutrients Cut out pictures of cooked foods from magazines and sort into groups of cooked and raw. Paste them onto card and design a game, (e.g. like snap or happy families) matching the raw and cooked foods. 	http://www.betterhealth.vic.gov.a u/bhcv2/bhcarticles.nsf/pages/Fo od processing and nutrition'Foo d processing and nutrition'. http://www.choice.com.au/revie ws-and-tests/food-and- health/food-and- drink/nutrition/are-fresh-vegies-





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	Reasons for cooking food.	 Since fire was discovered, people have been cooking. Find out how fire was discovered and how it changed the way people prepared food. Design an experiment to see what happens to an egg when heat is applied. Adapt the <u>chocolate cake recipe</u> to make something different. 	better.aspx Are fresh veggies better?
Accounting	To Understand the effect of correction of errors on the financial statements.	 Research on the uses and process of accounting data in the books of Prime entry. Research on the types of errors that occurs in the ledger accounts. Analyse the impacts of such errors on the financial statements. Present your findings through google slides and share the link. 	https://www.youtube.com/watch ?v=INBVxEsG2ww https://www.youtube.com/watch ?v=iaYYnSZR13s https://www.youtube.com/watch ?v=yuw-P2BMEQU IGCSE Accounting Text Book www.cie.org.uk.ae





Economics	•	Organization of production	 Write a detailed response on how lean manufacturing and automation has helped Toyota in reducing its costs and how has it affected the organization of production for the company. Explain the factors affecting the demand for the various factors of production in the case of Toyota. 	https://dineshbakshi.com/ https://www.investopedia.com/ https://www.tutor2u.net/
Business Studies	•	To explain the economic objectives of government and to understand the business cycle. To explain the ways in which activity might be affected by government economic decisions and how business might respond.	 Create a poster discussing the social cost and social benefits of business activities. Prepare a poster discussing the role of multinational business in Dubai and its impact to country (discuss both positive and negative impacts) Develop a poster to highlight the difference between primary and secondary research Prepare a mind map on Globalisation and its threats and opportunities. Discuss the negative impacts of business on the natural environment. 	Website http://www.gksoft.com/govt/en/p g.html http://www.economicsguide.me/?pa ge_id=2422 www.tutor2u IGCSE Business studies Textbook





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		 Prepare the Mind Map on Currency Exchange Rates. (Must include definition, its determination, currency appreciation &depreciation, effect of changing rates to business and Examples.) 	
Travel and Tourism	 To understand the major influencers in travel industry. Learn how location/global position, climatic conditions are favourable for this industry 	Choose two contrasting destinations and compare them in terms of climate, location, culture, food. Point out the key implications for tourism development such as: • Temperatures (daily, seasonal variations) • Hours of sunshine • Geographical location (sea, sand, ice, mountains etc.) • Food, culture of the location. • Research on 'Features which attract tourists to a particular destination'. Make a Survey form and do a random sampling during holiday time by visiting malls and crowded areas. When you get your survey form filled by tourists, categorize them under following categories: > Backpackers > DINKY > Empty Nesters > Grey Market/ Boomers	The UAE's tourist or visitor guide • UAE tourist board's Destination Manual • Internet sites, e.g., local attractions and destinations. • The Columbus Guide to World Tourist Attractions.





		➤ Youth Market Analyse which of the following group visits the most or travels the most. You could present your findings as a Report.	
Sociology	To assess the impact of schools, teachers and peer groups on educational achievement	Use the internet to research the topic. Answer the following questions: What are the common features of anti-school sub cultures and why is this kind of sub culture more common among boys than girls	Cambridge IGCSE Sociology course book- Jonathan Blundell https://www.youtube.com/watch ?v=S294zRodS 4
Psychology	Bystander Behaviour- Social Influence • To explain the role of social approach and its effect on Bystander behaviour	Use the internet to research the topic Explain the concept of social influence- Start from everyday experiences Read the famous case of Kitty Genovese and explain the role and importance of bystander behaviour from it	https://www.history.com/topics/c rime/kitty-genovese https://www.simplypsychology.or g/Kitty-Genovese.html





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Geography	 Describe how weather data are collected Make calculations using information from weather instruments 	 Research how weather elements are measured and recorded Describe the siting of a Stevenson's Screen. Use and interpret graphs and other diagrams showing weather and climate data 	Cambridge IGCSE Geography textbook. https://www.geographypods.com /1-measuring-weather.html https://www.geographypods.com /1-measuring-weather.html http://www.weather.gov.dm/reso urces/weather-elements-and- instruments-used-for- measurement
History	Bolshevik Revolution 1917 To critically evaluate the causes and consequences of the Bolshevik Revolution 1917	Watch the BBC documentary on the Bolshevik revolution 1917 and analyse the causes and consequences. Use the internet to research the topic and create revision flash cards that can be used.	https://www.youtube.com/watch ?v=cV9G1QUIm7w https://www.youtube.com/watch ?v=mYo8SEvnsrM&list=PL3H6z03 7pboFwKREwWrf4ELNDdiTLyhAN





			https://www.history.com/topics/russia/russian-revolution
Sociology	Education: To assess the impact of schools, teachers and peer groups on educational achievement	 Answer the following questions: What are the common features of anti-school sub cultures and why is this kind of sub culture more common among boys than girls 	Cambridge IGCSE Sociology course book- Jonathan Blundell https://www.youtube.com/watch ?v=S294zRodS 4
Psychology	Bystander Behaviour- Social Influence To explain the role of social approach and its effect on Bystander behaviour	Research the topic using the internet. Discuss the topic with your family. Explain the concept of social influence- Start from everyday experiences Read the famous case of Kitty Genovese and explain the role and importance of bystander behaviour from it	https://www.history.com/topics/c rime/kitty-genovese https://www.simplypsychology.or g/Kitty-Genovese.html





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Environmental Management	 Unit 5: Oceans and Fisheries To investigate the resource potential of oceans, the impact of exploitation and strategies for the sustainable harvesting of marine species 	Use the internet to explore the resource potential of oceans. Find out the factors influencing the location of global fishing grounds. What is the impact of exploitation of marine fisheries. What strategies are there for the sustainable exploitation of marine species? Create your own revision flash cards for this topic. Ensure that you use the key words.	https://sdgs.un.org/goals/goal14 https://sdgs.un.org/topics/oceans-and-seas http://www.fao.org/state-of-fisheries-aquaculture
Global Perspectives	 Team project To collaborate with others in researching one issue and create a project outcome. 	 Collaborate with 2 other students in your class. You may also involve your parents in completing this project. Choose one key issue in the topic Food, water and agriculture Research the issue from different cultural perspectives identifying causes, consequences. Decide and create one project outcome from these: Blog, Educational video, Short film documentary, a poster, a song or a design/model 	Students will choose their own websites for research.





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		 In your project outcome clearly show the various cultural perspectives, causes, consequences and courses of action to the chosen issue. 	
ICT	Topic: Measuring and control devices Learning Objective: To describe a range of	In every walk of life, computers are been used as measuring device and controlling device. Life is automated to a large extent.	
	 measurement applications To explain the difference between analogue data and digital data To explain the need for conversion 	Help your child to research on the various range of measuring applications used around us. Create a report, specifying following concepts:	https://www.igcseict.info/theory/ 2/sensor/index.html
	 between analogue and digital data To describe the use of microprocessors and computers in a number of applications 	 Explain various measurement applications (e.g. scientific experiments, weather stations) Explain the difference between analogue data and digital data Explain the need for conversion between analogue and digital data 	https://www.teach- ict.com/gcse_new/control/control /tasks_control.htm





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	To discuss the advantages and disadvantages of using computers in measurement rather than	 Describe the use of microprocessors and computers in a number of applications (e.g. pollution monitoring, intensive care units in hospitals) Discuss the advantages and disadvantages of using computers in measurement rather than What is the main difference between monitoring and controlling of a process? Name various sensors and describe three different applications which use these sensors. 	
Computer Science	Topic: Programming language Learning Objective: • Students will be able to analyse features of high level and low-level language.	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.	https://www.youtube.com/watch ?v=WvhQhj4n6b8





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	Students will be able to compare different translators like compilers and translators.	 Support your child to analyse features of compiled and interpreted languages. Also discover few compiled languages. Motivate your child to explore the importance and features of object-oriented programming language. Discuss with your child about various programming languages used in different companies of UAE. Encourage your child to research and develop assembly code. Discuss with your child and help them to explore about the first element of digital citizenship: Selfimage and identity. 	https://www.howtopython.org/dif ference-between-python- interpreter-and-compiler/
PE	Risk, Technology in sport, Professional and amateur performers	 For a sport you take part in regularly, write a summary of the risks involved (both real and perceived). What is the level of risk? What strategies can be taken to minimise risk? For a sport of your choice, produce an information sheet looking at the types of technology used and 	www.bbc.co.uk www.teachpe.com





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how technology has changed the sport. Explain the advantages and disadvantages of these technologies in your chosen sport. Think about the aids that are used to help the officials. Why are they a benefit? If the sport you chose doesn't have any technological aids for the official, what might help them?

• Make a poster highlighting the four main areas you have studied:

a. what it means to be amateur and professional.

b. how the lines between amateur and professional performers became blurred

c. professionals and amateurs at the Olympics.

d. the effect of professionalisation on sportsmanship and gamesmanship.





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ART	Assessment objectives 1,2 and 3	 an ability to record from direct observation and personal experience. 	www.studentartguide.com
		an imaginative, creative and personal response	
		growing independence in the refinement and	
		development of ideas and personal outcomes	
		Develop and realise a project from one area of study	
		in the subject content from a theme	





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Self, Family, Pets and Personal relationships:

- Ma famille
- Comment sont-ils physiquement?
- Les adjectifs possessifs
- Les adjectifs irréguliers
- Comment sont-ils de caractères?
- Les verbes s'entendre avec et se disputer...
- l'heure
- Les rapports avec les autres
- Je me détends chez moi
- Range ta chamberL'impératif

Reading:

Student is requested to read some articles about family, pets, personal relationships and life at home

<u>Listening:</u>

Student is requested to complete few listening comprehensions about family, pets, personal relationships and life at home.

Writing:

Write a paragraph when you speak/ describe your family, your relationships and pets and life at home

Speaking:

Record a video when you speak/ describe your family, your relationships and pets and life at home.

https://francais.lingolia.com/en/grammar/verbs/imperatif https://francais.lingolia.com/fr/vocabulaire/nombresdate-et-heure/lheure

https://www.colanguage.com/fr/les-adjectifs-

irr%C3%A9guliers

https://flenantes.files.wordpress.com/2013/10/possessifs

1.pdf

https://www.brainscape.com/flas

hcards/vocabulaire-entre-nous-la-

famille-et-les-

4985944/packs/6355789

https://heimavocats.ch/domaines

-de-competence/droit-de-la-

famille/relations-personnelles-

avec-les-enfants/

https://lebaobabbleu.com/2019/1

2/12/1o-co-la-famille/#more-

12323

https://www.lepointdufle.net/p/lexique famille.htm





Arabic	TOPIC: اسم الآلة		
	Learning objectives: أن يميز اسم الآلة أن يوظف اسم الآلة .	يحدد اسم الآلة في الجمل يكتب فقرة من إنشائه مستخدمًا اسم الآلة	https://www.youtube.com/watch?v =POTqyBpD-AQ
	TOPIC التشبيه التمثيلي Learning objectives أن يميز الطالب التشبيه التمثيلي أن يوظف الطالب التشبيه التمثيلي	ستخرج التشبيه التمثيلي في الجمل يكتب فقرة من إنشائه مستخدمًا التشبيه التمثيلي	https://www.youtube.com/watch?v =Oxy4vJwcKes
Islamic Education (Arabs)	العفة – رعاية الرسول صلى الله عليه <u>TOPIC:</u> وسلم لأهل بيته وسلم لأهل بيته Learning objectives: يعرف مفهوم العفة يوضح العلاقة بين الاستعفاف والمروءة	يحرص الطالب على حفظ سور الكهف يحرص الطالب على حفظ سور الكهف يكتب موضوعاً عن العفة وأثارها على الفرد والمجتمع يكتب موضوعاً عن رعايته صلى الله عليه وسلم لأهل بيته	https://www.youtube.com/watch?v =9ArCNu1TS4w https://www.youtube.com/watch?v =H12YXIkSHKc





	يبين أنواع العفة يبين أنواع العفة يذكر نماذج للعفة من القرآن الكريم يحلل أثار العفة الاجتماعية. يقترح قواعد وقائية للعفة يستنتج مقومات حياة الرسول (ص) الزوجية يبين رعايته لأسرته يبين أن الرسول (ص) هو النوذج الكامل للاقتداء به والتأسي في كل شيئ يستنتج ابرز جوانب المودة والرحمة في تعامله مع زوجاته (ص)		
Islamic Education (Non Arabs)	 The scholars' Efforts in Preserving Sunnah Explain the background of preserving Hadiths and conveying them to people. Define the terms 'Isnad' and 'Matn'. 	Write down an essay showing the importance of faith in the unseen and its good effects on believers.	





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 Distinguish between Matn. Identify the efforts of recording Hadith. 	preserve Sunnah	of the scholars to
 Obedience of the Rule Identify the ruling on ruler from Qur'an. Explain the important the ruler. 	obeying the	obeying the ruler https://www.youtube.com/watch?v =qpp OAkLW5o&t=183s
 Infer the negative eff rebelling against the individual and society Find a link between obey and civilized, refined con 	ruler on the /. ring the ruler	https://www.youtube.com/watch?v =vKFB0QFSfsg https://www.youtube.com/watch?v =vtCj-l16D68