



Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	Analysis of an interview.	View the interview of any one of the following. a. an author b. an actor who has acted in a biopic or historical movie. c. a diaspora poet Analyse and make notes on the format, structure, tone, register, style, audience and flow of conversation in the interview.	<u>https://www.youtube.com/w</u> atch?v=lxJy2T63q_Y
English 2 nd Language	Email Writing To be able to compose an email using relevant ideas.	 Recall a recent incident when something unexpected happened. Write an email to your friend, describing: a. what were you doing when something unexpected happened b. how did you feel about it what were your next steps and why 	https://www.youtube.com/watc h?v=iW_CNFEmRIU
English Literature	Dramatic devices To analyse the purpose effect of dramatic devices.	Analyse the purpose and impact of dramatic elements in the short film 'The Red Balloon'.	Dramatic Elements https://thedramateacher.com /dramatic-elements/ Movie Link-The Red Balloon





			https://www.youtube.com/watc h?v=VexKSRKoWQY
Mathematics	Graphs of functions	Research on different non-linear functions and their graphing. Do	https://www.mathsisfun.com/se
(Accelerated)	• Draw quadratic, cubic,	you notice any pattern in the shape of the graph of different	ts/graph-equation.html
	exponential and	functions?	https://www.bbc.co.uk/bitesize/
	reciprocal graphs from		guides/zydmsrd/revision/1
	the given equation		https://www.youtube.com/watc
	- · ·		<u>h?v=wSPrXv7-8GQ</u>
	Solve an equation		https://www.youtube.com/watc
	using graphs	What is a vector quantity? Make a list of vector quantities. Also	<u>h?v=pG1JHsFi6cQ</u>
	 Estimate the gradient 	write down the corresponding scalar quantities?	Graphs of quadratic functions -
	of tangent at a given		Solving quadratic equations -
	point to the curve.		Edexcel - GCSE Maths Revision -
			Edexcel - BBC Bitesize
	Vectors	Investigate on the applications of vector geometry.	
	Vectors		https://www.mathsisfun.com/a
			Igebra/vectors.html





	 Add and subtract vectors, multiply with a scalar Identify parallel vectors Calculate the magnitude of vectors Apply position vectors in vector geometry 		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)	 Trigonometry Learning objective: Apply trigonometry to find the missing side or angle using sine or cosine rule 	 * Research on the application of Sine and Cosine rule in real life. Ex: oceanography to calculate the height of tides in oceans *Research on applications of bearings to make coded messages. *Burj Khalifa is 12 km from Atlantis, on a bearing of 083°, whereas Burj Al Arab is 7km from Atlantis, on a bearing of 016°. 	https://www.mathnasium.com/ blog/real-life-applications-of- trigonometry https://prezi.com/gj0mgvu_s2ec /real-life-applications-for-sine- and-cosine-trigonometric-fun/





Calculate the area of a	Calculate the distance and bearing of Burj Al Arab from Burj	
non-right-angled triangle	Khalifa.	https://www.youtube.com/watc
		h?v=I8LI7wPSvNI
Bearings		https://www.youtube.com/watc
Learning objective:		<u>h?v=uH8YQu0YDE&list=RDCMUC</u>
• To solve application word	*Research on applications of trigonometry- height of Egyptian	LInnnahpUYO2tOEcXe1mHA∈
	pyramids, distance between stars, navigation and so on.	<u>dex=4</u>
problems using		https://www.youtube.com/watc
		<u>h?v=1Fe4QOENj0g</u>
3D Trigonometry		https://www.youtube.com/watc
Learning objective:		<u>h?v=KfF6rH1VGzs</u>
 Application of trigonometric 		https://www.youtube.com/watc
methods to solve 3D		<u>h?v=jnjRBawGJ_c&t=200s</u>
problems and calculate the		https://www.youtube.com/watc
angle between a line and a		<u>h?v=2uJaskNtkKo&t=6s</u>
plane of a non-right angled		https://www.youtube.com/watc
		<u>h?v=7Ksc4KqpAQU</u>
triangle.		





Mathematics -	Probability: Probability from	Show learners the following video clips as a whole class, or they	https://www.mathsgenie.co.uk/
Statistic	two-way tables, sample space	could watch them independently. Produce a set of questions	papers/stats/IndexNumbers.pdf
	diagrams, tree diagrams and Venn diagrams	covering key points from the videos, for learners to answer either while watching or afterwards. (F)	https://www.youtube.com/watc h?v=mdb_R-J91NM https://www.youtube.com/watc
		Extension activity: An interesting problem involving independent events and real data is at: http://s3.amazonaws.com/illustrativemathematics/illustration_p dfs/000/000/950/original/illustrative_mathematics_950.pdf?139 075108	<u>h?v=BSLqzyy9sgE</u>
Physics	Radioactivity Demonstrate the understanding of background radiation	 Research on : Create a list of questions you would like to ask your teacher. Frame higher order questions using bloom's taxonomy. 	Detecting background radiation: www.youtube.com/watch?v=5T CZqT7enHw
	<u>CHARACTERISTICS OF THE</u> THREE KINDS OF EMISSION		





Identify α , β and γ -emissions by recalling – their nature – their relative ionising effects – their relative penetrating abilities Describe the deflection of α - particles, β -particles and γ - radiation in electric fields and magnetic fields	Research on :	Properties: www.bbc.co.uk/schools/gcsebite size/science/ocr gateway pre 2 011/living future/4 nu clear radiation1.shtml
Explain their relative ionising effects with reference to: (a) kinetic energy (b) electric charge <u>Radioactive decay</u> Use equations involving nuclide notation to represent	 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. 	www.youtube.com/watch?v=Qlb 5Z8QBpcl Radioactivity: http://fiziknota.blogspot.com/20 10/01/radioa ctivity.html www.youtube.com/watch?v=T7 NhgaJCg5A





changes in the composition of the nucleus when particles are emitted <u>Half-life</u> Use the term half-life in simple calculations, which might involve information in tables or decay curves	Use a radioactive decay simulation exercise and if possible an experiment with a Geiger counter and short half-life isotope to plot decay curves.	www.youtube.com/watch?v=fTo Mbj3Xz2c
Atomic model Describe the structure of an atom in terms of a positive nucleus and negative electrons	Research on:	www.youtube.com/watch?v=Tp 2M9tndGG0 www.youtube.com/watch?v=IP5 7gEWcisY
<u>Nucleus</u> Describe the composition of the nucleus in terms of protons and neutrons	The applications of gamma radiations and how it is used in Medicine	www.youtube.com/watch?v=sR PejoNktKE





State the charges of protons	Learners can investigate alpha and beta decay further using the	www.youtube.com/watch?v=Eb
and neutrons	simulations.	oWeWmh5Pg
Use the term proton number Z Use the term nucleon number A	 Extension: Learners may be interested in the decay (or nuclear) equations for historically important reactions such as Becquerel's first observation of radioactivity, the first artificial transmutation of nitrogen to oxygen, the nuclear fission of uranium, etc. Explain what occurs inside the nucleus for beta plus decay, as well as beta minus decay, and refer to the conservation of charge. 	https://phet.colorado.edu/en/si mulation/legacy/alpha-decay https://phet.colorado.edu/en/si mulation/legacy/beta-decay





Chemistry	ACIDS, BASES AND SALTS	Hands on activity: Find out the pH value of various household	https://youtu.be/nUh9octdJKo
	- Describe neutrality and	substances by preparing and using cabbage indicator.	http://www.memrise.com/cours
	relative acidity and alkalinity		e/198260/igcse-chemistry-acids-
	in terms of pH measured	Research:	bases-and-salts/
	using Universal Indicator	 Application of acids- bases in the daily life- making of 	
	paper (whole numbers only)	medicines, tooth pastes, etc,	
		- Enlist various acid bases reactions taking place inside the	
	Define <i>acids</i> and <i>bases</i> in	body. CROSS CURRICULUM: Biology	
	terms of proton transfer,	- Importance of alkaline and acidic medium inside the body-	http://ichemey.blogspot.ae/201
	limited to aqueous solutions	pH specificity for activity of enzymes.	3/01/acids-bases-and-salts.html
	Describe the characteristic	 Effects of acids on the environment- living and non-livings- 	
	properties of acids as	CROSS CURRICULUM: Environmental Management	
	reactions with metals, bases,		
	carbonates and effect on		
	litmus and methyl orange.	Planning & Investigation:	
	Describe the characteristic		
	properties of bases as		
	reactions with acids and with		





ammonium salts and effect on litmus and methyl orange Describe the displacement of ammonia from its salts Describe the meaning of weak and strong acids and bases Classify oxides as either acidic or basic, related to metallic and non-metallic character	 Plan Investigate the nature of acid- base reactions (neutralization) as endothermic or exothermic reactions by using substances used in the daily life. Poster making: Prepare a poster showing various reactions of acids and bases in terms of proton or hydroxide donor and proton acceptor Poster must include: Word & balanced symbol equations Reactions of acids and oxides of non-metals (Showing nature of non-metal oxides) Reactions of bases, alkalis oxides of metals (Showing nature of metal oxides) 	
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Biology	Respiration and Gas	Students will make a list of features required for gas	<u>http://www.ivyroses.com/</u>
	<u>exchange in Humans</u> Gas exchange in Humans	exchange and correlate it with gas exchange system in	Biology/Transport/exchan
	• To list the features of gas	plants.	 ge-surface-features.php https://youtu.be/D4a-
	exchange surfaces.	 Students will make a model of respiratory system using 	HOvzmQY
	 To name and identify the important parts of 	clay, cotton and other craft materials.	<u>http://respiratorysystemf</u>
	Respiratory system.	• Students will recall some of the specialised cells they have	orthewin.weebly.com/spe
	• To differentiate between	learnt and create a mind map specifying their functions.	 <u>cialized-cells.html</u> https://youtu.be/Yy7poCB
	inspiration and expiration	• Students will use lime water as a test for carbon dioxide to	DBvE
	in terms of factors.To explain the role of	investigate the difference in composition between inspired	 <u>http://www.bbc.co.uk/bit</u>
	specialised cells in the gas	and expired air.	esize/standard/biology/th
	exchange system.	 Students will compare between aerobic and anaerobic 	<u>e body in action/the ne</u> ed for energy/revision/2/
	• To investigate and	respiration using a venn diagram.	 <u>https://youtu.be/sbG6rpfy</u>
	describe the effects of physical activity on the		<u>07Y</u>





rate and depth of breathing.	 in terms of biotechnology. Students will carry out an investigation on uptake of oxygen and prepare a detailed report on it 	 <u>https://youtu.be/D-</u> <u>dWv4V4Vcl</u> <u>https://youtu.be/tddW8Z</u> <u>kyatw</u> <u>https://youtu.be/nltE8Lz6</u> <u>tRQ</u> <u>https://youtu.be/GjfD55C</u> <u>9v38</u> <u>https://youtu.be/sVTDF6x</u> <u>ZMKg</u>
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Food and	Basic proportions and	How to Adjust a R	Recipe	http://www.betterhealth.vic.gov
Nutrition	methods of making :	<u>Flapjacks</u>	Serves: 10	.au/bhcv2/bhcarticles.nsf/pages/
	Principles involved in the different methods of making Biscuits, cookies, scones and cakes made by creaming, melting, one- stage, rubbing- in and whisking methods. Pastries – shortcrust, flaky and rough puff. Sauces – pouring and coating; roux and blended methods. Batters – thin (pouring) and coating. Sweet and savoury yeast products	120g butter 100g dark brown s 4 tablespoons gold 250g rolled oats 40g sultanas or rai How much of each for: 2 people 5 people Extension	den syrup	Food processing and nutrition https://opentextbc.ca/basickitch enandfoodservicemanagement/c hapter/convert-and-adjust- recipes-and-formulas/





Economics	 To develop independent researching on various objectives of firm To developed analytical research on Market structure 	 Prepare a presentation in terms of to show how profit maximisation can be shown on a graph showing the figures for TR and TC. In groups learners to discuss why profit maximisation is such an important goal for many firms. Prepare a presentation to consider other possible goals that business organisations may have, apart from profit maximisation. Debate on what should the main aim of business organisations connecting to real world examples. Prepare a presentation on the advantages and disadvantages of monopoly, making use of real examples from their own country and from abroad. 	https://youtu.be/KxjbQ3otNIEhttps://www.tutor2u.net/economics/reference/monopoly-revision-presentationhttps://www.tutor2u.net/economics/reference/perfect-competition-revision-presentationhttps://www.khanacademy.org/economics-finance-domain/ap-microeconomics/imperfect-competition/ap-monopolies-tutorial/v/monopolies-vs-
			perfect-competition





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Accounting	 To identify the 	• Explain how, using the reducing balance method, the	 <u>http://showmyupdates.bl</u>
	difference between	amount of depreciation decreases each year even though	ogspot.ae/2014/12/tradi
	revenue and capital	the same percentage rate is applied?	ng-profit-loss-ac-and-
	expenditure and	• To research and justify how the accounting concepts	balance-sheet 28.html
	receipts.	(Prudence, matching and consistency principle) is applied	 <u>https://www.youtube.co</u>
	To explain the nature	while calculating depreciation on noncurrent assets.	<u>m/watch?v=T-imJYUi_ug</u>
	and causes of		<u>http://www.moneycontr</u>
	depreciation.		ol.com/india/financials/t
	To calculate		atamotors/profit-
	depreciation using the		loss/TM03
	two main methods of		<u>http://www.investopedia</u>
	depreciation.		.com/terms/p/plstateme
	To interpret the		<u>nt.asp</u>
	different accounting		 <u>https://en.wikibooks.org/</u>
	concepts applied while		wiki/Accountancy/Books
			of Prime Entry





	providing provisions to non-current assets.		 <u>http://kfknowledgebank.</u> <u>kaplan.co.uk/KFKB/Wiki%</u> <u>20Pages/Books%20of%20</u> <u>Prime%20Entry.aspx</u>
Business Studies	 To assess the main features of markets, such as growth, share and competitors. To explain what marketing is and the role of marketing in modern societies To analyse the significance of market segmentation and 	 The managing director of a small boat-building business told the other directors: 'There is no need for us to spend money on market research. We have clearly designed the best product on the market and consumers will be certain to buy.' Discuss whether the managing director is likely to be proven correct. Analyse the benefits to a retailing business of setting marketing objectives. Analyse ways in which a soft drink manufacturer might segment the market for its products. Evaluate whether a business should always try to become market leader with the highest market share. 	https://www.cambridgeinternati onal.org/programmes-and- qualifications/cambridge-igcse- business-studies-0450/ https://igcseaid.com/notes/busi ness-studies-0450/1-1-business- activity/ https://www.masterclass.com/a rticles/marketing-activities





	how this might be achieved.		
Travel and Tourism	To analyze the different types of transport and their appeal.	 Research in how three different ways: That the tourists could complete their journey, then explain which one would be the best option, providing reasons why. Write an explanation of why each type of transport might appeal to tourists. 	Useful video links: https://youtu.be/TeQqZra6Z ZI, https://youtu.be/BJ07XLRM_ PA
Sociology	Education To assess the explanations for different levels of achievement	 To what extent can cultural deprivation explain differences in educational achievement between different social classes? Explain how a self-fulfilling prophecy could occur in schools. 	https://schoolsupporthub.cambr idgeinternational.org/past- exam-papers/?keywords=0495 Sociology IGCSE Coursebook – Jonathan Blundell





Psychology	The brain and neuropsychology	 Research on the lateralisation of the human brain as an explanation of sex differences between males and females. 	Podcast: Sperry (1968) Split brain study - YouTube Psychology Edexcel GCSE 9-1: Damasio et al. (1994) The Return of Phineas Gage - YouTube Psychology edexcel GCSE 9-1 coursebook
Geography	Food production To evaluate the various different ways of agriculture.	 Create a table showing the difference between commercial and subsistence agriculture. Research on a country facing food shortages and analyse the reasons for the same and give suitable solutions to overcome the problem. 	https://www.thegeographeronli ne.net/food-production.html Geography IGCSE Coursebook.
History	Cold War:	To what extent did the policy of appeasement cause the Second World War?" Comparative analysis of the ideology of capitalism and Communism.	https://schoolhistory.co.uk/ks3/ significant-society-issue-in- world-history/russia-ussr- communism/





Environmental Management	Water and its management	 Investigate the following using the internet and other resources available to you: Sources of water for use The uses of water Why the availability of safe drinking water varies globally. Multipurpose dam projects Create flash cards for revision on this topic. 	https://www.nature.com/article s/s43017-022-00378-6 https://www.cdc.gov/healthywa ter/drinking/public/water_sourc es.html#:~:text=Source%20wate r%20refers%20to%20bodies,(for %20example%2C%20an%20aquif er) https://revisionworld.com/gcse- revision/geography/developmen t/case-studies/case-study-three-
ICT	TOPIC Computer Networking LEARNING OBJECTIVE	Develop a project, as a real-life scenario of a company, on Computer Networking, highlighting: • Network Devices • IP and the MAC	t/case-studies/case-study-three- gorges-dam https://www.saylor.org//Comp uter-Networking-Principles- Bonaventure





	 To analyse various types of networks and networking devices. To define and illustrate how to configure a small network with cost analysis. To list out networking issues and effects of it with real life applications. 	 WIFI Bluetooth Types of internet connections 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, but write in their own words after understanding. 	https://www.memorize.com/gra de-10-computer-networking
Computer Science	TOPIC Database LEARNING OBJECTIVE	Design single-table database for real-life scenario and complete structured query language (SQL) scripts to query data stored in a single database table	https://www.bbc.co.uk/bitesize/ guides/zvnny4j/revision/1 https://www.w3schools.com/s
		 Create queries using: SELECT – FROM – WHERE – ORDER BY – SUM – COUNT 	<u>al/</u>





Art	AO2: To explore and select appropriate resources, media,	Developing an ability to clearly show the differences between own ideas and the ideas or techniques of the researched artist.	www.studentartguide.com https://www.bbc.co.uk/bitesize/ guides/z8pfcj6/revision/1
Physical Education	 databases. What is motivation and why is it so important in achieving success in sporting performance? 	Do some research on what drives professional athletes, and then write a reflective journal of the most inspiring motivational example for them to use as a guide and inspiration for their own drive.	www.teachpe.com www.britishschoolofboston.org www.cie.org.uk www.physicaleducation.co.uk
	 Define a single-table database from given data storage requirements Use to obtain and display information from single-table 	• Identify the output given by an SQL statement that will query the given contents of a database table.	





	materials, techniques and processes.	To have own research, planning and investigation of ideas to develop your own personal response.	
French	 Je me détends chez moi Mon temps libre Je vais au restaurant Le conditionnel présent Les expressions de quantité Le futur proche Aimer+ infinitif 	Writing :Students are requested to make a blog/text/dialogue on how to relax at home, Speaking about your free time, and how to invite a friend to go to the restaurant.Speaking :Students are requested to prepare a video/podcast on how to relax at home, Speaking about your free time, and how to invite a friend to go to the restaurant.Reading and Listening :Different reading and Listening comprehension will be conducted in the Classroom on the same topics.	https://bonjourdefrance.com/le ssons/a1/grammaire/111 https://www.podcastfrancaisfa cile.com/conjugaison/condition nel-present-formation- apprendre-le-francais.html https://www.youtube.com/wat ch?v=f-xFKwwGw1E https://www.youtube.com/wat ch?v=4W5mmpggn-8





Arabic (Arabs)	TOPIC:	بحث عن مناسبة القصيدة	https://www.youtube.com/watc
	قصيدة شيخ العرب قصة خارجية	(يدلل على غرض القصيدة من الأبيات (ألفاظ – تراكيب – صور – أساليب	h?v=VLP2mic4qSY
	المحسنات البديعية	يحلل العاطفة في الأبيات مع الدليل عليها	https://www.youtube.com/watc
	الأفعال الخمسة كتابة مقال	يحلل دور تقنيات الكتابة في التأثير على الشخصيات	<u>h?v=AAVQKVgMihU</u>
	(دراسة مقال الدول بين الابتكار	يحلل عناصر القصة شخصيات زمكان عقدة حل أحداث	https://www.youtube.com/watc
	والاندثار(Learning objectives:	يدلل على تقنيات الكاتب (سرد وصف حوار استرجاع مفارقة	<u>h?v=lBHj0bJARmk</u>
	أن يحلل النص الشعري تحليلا فنيًا.	يضع نهاية مختلفة للقصة مع / عكس سير الأحداث	https://www.youtube.com/watc
	أن يحدد الصورة الفنية في النص -	يحلل أدلة الكاتب في المقال	<u>h?v=5Dy3vwxvptw</u>
	أن يقارن بين نصين أدبيين مقارنة - أدبية أن يحدد دور التصوير والقيم -		https://www.youtube.com/watc h?v=kpH-HQQquqU
	البلاغية في النص		
	أن يحلل دور المكان في القصة -		
	أن يدلل على الكناية بالشواهد		





	أن يميز بين الكناية والاستعارة من حيث القرينة أن يحدد الأفكار الرئيسة والداعمة في المقال أن يبدي وجهة نظرة في الأدلة ويضيف أدلة جديدة		
Arabic Non- Arabs	Topic: قضايا عالمية Learning Objectives: أن يستنتج الأفكار الرئيسة والداعمة أن يفسر التلميذ معاني المفردات من خلال المترادفات والأضداد أن يوضح التلميذ أسباب البطالة والفقر والمرض أن يحلل التلميذ النص تحليلاً أدبياً	The students can create paragraphs about global issues like poverty, pollution, global warming and unemployment. The students can create conceptual maps about the causes of the global problems like poverty, pollution and unemployment. The students can create magazines about the global issues of poverty, pollution, global warming and unemployment. The students can create videos about poverty, pollution, unemployment and famine.	https://www.youtube.com/watc h?v=illjkbKqyYA https://www.youtube.com/watc h?v=JneAz6Fl05U https://www.youtube.com/watc h?v=6vZ-E0 hOusE https://www.youtube.com/watc h?v=cgAcHmk7EwI





Islamic	الدنيا دار عمل / رعاية :TOPIC	يحلل المثل الوارد في الآيات	https://www.youtube.com/watc
Education	الرسول لأهل بيته		h?v=cDBK4jim1ww
(Arabs)	Learning chiestings	يبين جوانب المحبة والرحمة في تعامله مع زوجاته	https://www.youtube.com/watc
	Learning objectives:	يقدم مقترحات لنشر المحبة والالفة بين الزوجين يستنتج معاني تكريم الله تعالى	<u>h?v=mb8kMSbIrJA</u>
	يفسر مفردات الآيات	للإنسان	
	يبين دلالة الآيات الكريمة		
	يستنتج مقومات حياة الرسول الزوجية		
	يبين رعاية الرسول لأسرته		





Islamic Education	TOPIC: Chastity	Students will write an essay about the importance of chastity Students will record videos about the effects of the chastity on	https://www.youtube.com/watc
(Non Arabs)	Learning objectives:	the individual and the society	h?v=m0hAHH2ocS8
	To explain the concept of chastity		
	To identify the kinds of chastity		https://www.youtube.com/watc h?v=fVaR73iGHPI&ab_channel= HudaTV
	To elucidate the methods of maintaining chastity		
	To analyze the effects of chastity on society.		





Moral	Development	Develop entrepreneurial skills by producing a plan for a 'business',	https://www.bdc.ca/en/articles-
Moral Education	Development of <u>Entrepreneurship skills</u>	Develop entrepreneurial skills by producing a plan for a 'business', and making financial decisions based on how the business copes with economic pressures.	