



Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	 To further develop skills in IGCSE English as a First Language. To prepare for end of term summative. 	 Explore the difference between the implicit and explicit meaning. This can be done on daily conversation, extracts from movies or magazines. Read various extracts and explain the meaning of different words Use extracts from novels or magazines to analyse the language keeping in mind the statement, quote and analysis. Also identify the visual and written techniques used. Choose a story from the Phoebus online magazine and analyse the writer's style using PETER strategy. 	https://www.allassignmenthelp.com/blog/language-analysis-get-blown-away-by-useful-clues/





English 2 nd Language	 To further develop skills in IGCSE English as a Second Language. To prepare for end of term summative. 	 Read any two articles from the Gulf News and write summaries following the required standard of IGCSE 0510. Your school is planning to introduce 'Fine Arts' – music and dance as one of the optional subjects for all grades. Here are some comments from parents and students. "We hear enough music and see enough dances on TV channels. Why in school also?" "It is a welcome idea to learn music and dance in a planned and systematic way in schools." "There are only 5 periods and we have important subjects to learn." "Music and dance taught as a subject will help even slow learners to find a profession." 	https://igcseaid.com/notes/engli sh-as-a-second-language- 0511/writing-exercise-7-writing- an-article/
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		"This proposal can help identify talented students and develop them." Write an <u>article</u> to be published in your school magazine giving your views. You article should be (150 – 200 words).	
English Literature	To enhance critical and analytical thinking skills.	 Encourage your child to read up on contemporary authors from your native language or land. Research on the themes that these writers are addressing in their works. Keeping in mind 0475 assessment objectives, examine how these themes reflect 21st century understanding and issues. 	https://resource.download.wjec. co.uk/vtc/2022-23/el22-23 2- 10b/ko-critical-analysis.pdf https://www.lovelearningtutors. com/main-blog/analyse-fiction





Mathematics (Extended)	Trigonometry – 3D Trigonometry Learning objectives: To apply trigonometric methods to solve 3D problems, including finding the angle between a line and a plane To apply trigonometric methods to solve 3D problems, to find the angle between a line and a plane in pyramids	Research on how 3 D trigonometry is used in real life. * What are the trigonometric functions in 3D? *What is the real life application of trigonometry in our daily life? *Think - How do you work out Pythagoras 3D?	https://thirdspacelearning.com/gc se-maths/geometry-and- measure/3d-trigonometry/ https://www.bbc.co.uk/bitesize/g uides/zsgjxfr/revision/5 https://mmerevise.co.uk/gcse- maths-revision/3d-pythagoras- and-trigonometry-gcse-revision- and-worksheets/ https://byjus.com/maths/applicati
	Bearings Learning objectives: • To apply bearings to calculate the measure of angles from a given point using angle facts and trigonometry	*Research on the application of trigonometry bearing? *Research on where bearings are used in real life maths?	https://thirdspacelearning.com/gc se-maths/geometry-and- measure/bearings-maths/





	To solve application word problems to calculate the distance or bearings from a given point	*What is the concept of bearing in math? *What are 3 rules when measuring bearings in maths? *Research on the difference between trigonometry and bearings.	https://geniebook.com/tuition/se condary-3/maths/elementary- maths/applications-of- trigonometry https://mmerevise.co.uk/gcse- maths-revision/bearings-gcse- revision-and-worksheets/
Statistics	Topic: Probability Learning Objectives: To calculate the probability of independent events and find the value using conditional probability.	Activities Students will watch the video to understand the conditional probability, draw a tree diagram and explain the conditional probability students to research on the applicability of conditional probability in real life.	https://www.mathgoodies.com/lessons/vol6/independent_events https://www.mathsisfun.com/data/probability-events-conditional.html





Extension activity: An interesting problem	https://www.mathsgenie.co.uk/sta
involving independent events and real data is at:	tistics.html
https://www.transum.org/software/SW/YouTube/Video.asp?Movie=dS2p APpcnI	
ube/video.asp?iviovie=dS2p_APpcni	





Physics	<u>Half-life</u>	Research on:	Properties:
	Use the term half-life in simple calculations, which might involve information in tables or decay curves	 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. Research on: The applications of gamma radiations and how it is used in Medicine 	www.bbc.co.uk/schools/gcsebitesiz e/science/ocr gateway pre 2011/l iving future/4 nu clear radiation1.shtml Radioactivity: http://fiziknota.blogspot.com/2010 /01/radioactivity.html
	Space Physics Earth and the solar system Explain that the Earth is a planet that rotates on its axis, which is tilted, once in approximately 24 hours, and use this to explain observations of the apparent	 Discussion and research: Why gravitational field strength, g, varies and know that it is different on other planets and the Moon from that on the Earth. 	Space Physics https://edpuzzle.com/media/661e2 5f77693c1f51084f10e





daily motion of the Sun and the periodic cycle of day and night.	❖ Assume the distance between earth and sun becomes half of its present distance. What is likely to happen to life?	Solar System https://edpuzzle.com/media/661da 3901fd8dd20c90be87d





Chemistry	Extraction of Metals	Activity 1:	http://www.steel.org/making-
	Extraction of Metals -To elaborate, the extraction of aluminium from bauxite ore	Design and present an infographic poster using CANAVA /Glogster on the topic- Diagrammatic representation of Iron production in blast furnace	
	 -To justify the role of cryolite in the extraction of aluminium. -To construct half cell reactions at the respective electrodes. 	Create a game or design a quiz on Kahoot to	A.A.I
		Activity 3: Plan an experiment to investigate the factors involved in rusting.	http://www.csun.edu/~ml727939/c oursework/695/rusting%20rates%2 Oof%20iron%20nails/rusting%20rat es%20of%20iron%20nails.htm





Biology	Respiration and Gas exchange in	Students will m	ake a list of features	
	Humans Gas exchange in Humans	required for gas	s exchange and correlate	 http://www.ivyroses.com/Bi ology/Transport/exchange-
	To list the features of gas exchange	it with gas exch	ange system in plants.	surface-features.php
	surfaces.To name and identify the important	Students will m	ake a model of	 http://respiratorysystemfort hewin.weebly.com/specialize
	parts of Respiratory system.	respiratory syst	em using clay, cotton	<u>d-cells.html</u>
	 To differentiate between inspiration and expiration in terms of factors. 	and other craft	materials.	 https://byjus.com/biology/re spiration-gas-exchange/
	To explain the role of specialised cells	Students will re	ecall some of the	 https://www.toppr.com/guid
	in the gas exchange system.To investigate and describe the	specialised cells	s they have learnt and	es/biology/breathing-and- exchange-of-
	effects of physical activity on the rate	create a mind n	nap specifying their	gases/exchange-and-
	and depth of breathing. Respiration	functions.		transport-of-gaseshttps://www.savemyexams.c
	• To state the uses of energy in the	Students will us	se lime water as a test for	om/igcse/biology/cie/23/revi
	human body. To define and state the word	carbon dioxide	to investigate the	sion-notes/11-gas-exchange- in-humans/11-1-gas-
	equation for aerobic respiration.			exchange-in-humans/11-1-4-





•	To	define	and	state	the	word
	equ	iation for	anae	robic re	spira	tion.

 To investigate the uptake of oxygen by respiring organisms. difference in composition between inspired and expired air.

- Students will compare between aerobic and anaerobic respiration using a venn diagram.
- Students will research on the use of anaerobic respiration in terms of biotechnology.
- Students will carry out an investigation on uptake of oxygen and prepare a detailed report on it

<u>differences-in-inspired--</u> expired-air/

 https://www.savemyexams.c om/gcse/biology/aqa/18/rev ision-notes/4bioenergetics/4-2respiration/4-2-1-aerobic-anaerobic-respiration/





Food and Nutrition	Basic proportions and methods of	How to Adjust a Recipe	http://www.betterhealth.vic.gov.au
	making:	FlapjacksServes: 10	/bhcv2/bhcarticles.nsf/pages/Food
	Principles involved in the different		processing and nutrition
	'	120g butter	
	methods of making –Biscuits, cookies,	100g dark brown soft sugar	https://opentextbc.ca/basickitchen
	scones and cakes made by creaming,	4 tablespoons golden syrup	andfoodservicemanagement/chapt
	melting, one- stage, rubbing-in and	250g rolled oats	er/convert-and-adjust-recipes-and-
	whisking methods.	40g sultanas or raisins	formulas/
	Pastries – shortcrust, flaky and rough	How much of each ingredient would you need	
	puff.	to make flapjacks for:	
	'	2 people	
	Sauces – pouring and coating; roux and	5 people	
	blended methods.	Extension	
	Batters – thin (pouring) and coating.	How much of each ingredient is needed to	
	Sweet and savoury yeast products.	make flapjack for 9 people?	





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Economics	Unemployment:	Task 1 - learners investigate a specific country	https://www.dineshbakshi.com/igc
	To analyse the consequences of	that has recently seen an increase in	se-gcse-economics/economic-
	unemployment for the individual, firms	unemployment and produce a report	indicators/revision-notes/114-
	and the economy as a whole	explaining the factors influencing this change	types-of-unemployment
		Research a specific country and produce a	
		report describing how its patterns of	https://igcseaid.com/notes/econo
		employment have changed over the past thirty	mics-0455/4-7-employment-and-
		years. For example, the report should cover:	<u>unemployment/</u>
		the change in proportion of: workers employed	
		in the primary, secondary and tertiary sectors;	
		workers employed in the formal and informal	
		economy; women in the labour force; workers	
		employed in the public sector. They can offer	
		explanations for these changes in the form of a	
		report.	
		Task 2 – Students investigate a specific country	
		that has recently seen an increase in	
		•	
		unemployment and produce a report	





		explaining the factors influencing this change. Research findings to be produced in the form of a presentation.	
Accounting	 Correction of errors: To explain the use of, and process accounting data in, the book of prime entry – the general journal. To post the ledger entries from the general journal. To correct errors by means of journal entries To explain the use of a suspense account as a temporary measure to balance the trial balance 	 Prepare journal entries for the provision for depreciation, the sale of non-current assets, to record accrued and prepaid expenses and incomes. Research on the reasons for differences in trial balance and how to rectify it Explain the effect of correcting errors on Income Statement and Statement of Financial Position. 	https://www.dineshbakshi.com/ig cse-accounting/verification-of- accounting-records https://rowkish.files.wordpress.co m/2020/06/rowkish-acc-binder- updated.pdf
Business Studies	To analyse why quality is important and how quality production might	Task 1 - Students are required to choose an industry (e.g., automotive, food and beverage, pharmaceutical, IT services) and conduct a	https://www.valmet.com/insights/ articles/experts-voice/quality- brings-competitive-advantage/





Travel and Tourism	Sustainable Development in Travel & Transport	drives their decisions to relocate. This task requires research, critical analysis, and synthesis of information, culminating in a presentation of their findings. Fortaleza Cycles for hire: Tourists visiting Fortaleza want to travel around the destination. Public transport in Fortaleza is sustainable. Public transport is more	Encouraging cycling in the city, Fortaleza, Brazil (who.int)
	 To examine the main factors influencing the location and relocation decisions of a business. To critically evaluate and justify an appropriate location for a business in different business scenarios. 	services. Also, identify any challenges these companies face in implementing these quality measures and the solutions they have employed. Students to produce their findings in the form of a report. Task 2 - Students will choose an industry and a company within that industry to study how and why businesses decide on locations and what	https://www.business.com/articles /5-reasons-why-product-quality- matters/ https://www.linkedin.com/pulse/i mportance-location-choice- businesses-theupperkey-rth9e
	be achieved to be successful in the competitive markets.	detailed study on how QC, QA, and TQM are applied to ensure quality in products and	





 To analyze how alternate energy source makes transport more sustainable. sustainable than private transport because a single bus or train journey carries many more people than a single car journey. Public transport journeys are less polluting; in Fortaleza, this includes hybrid buses and bicycles for hire and is an integrated transport system. For example, bicycle racks are located at bus stations and near bus stops.

Fortaleza has more than 100 km of bus lanes, which are reserved for public transport use. Bus lanes make bus journeys quicker. Bus travel in Fortaleza is less polluting because bus lanes help to reduce congestion.

Fortaleza has more than 200 km of cycle routes. Alongside the main Praia de Meireles beach is a flat, 6 km-long, paved routes that cyclists can use.

Questions

United Nations Highlights Fortaleza
Efforts on Road Safety and
Sustainable Mobility - Vital
Strategies

<u>fortaleza cycles sustainability - Search Images (bing.com)</u>

Fortaleza, Brazil Wins 2019
Sustainable Transport Award Institute for Transportation and
Development Policy (itdp.org)





		 Identify four sustainable transport developments in Fortaleza. Describe how integrated transport, bus lanes and hybrid buses help sustainability. Analyze and explain further sustainable travel developments that Fortaleza could introduce. Evaluate the extent to which Fortaleza has developed sustainable transport in comparison with a destination of your choice. 	
Sociology	Role, age gender, ethnic group and class as influence on social identity	Research and provide suitable evidences how role, age, gender, ethnic group and class have influence on ones social identity	Cambridge IGCSE Sociology course book- Jonathan Blundell





Psychology	Ethics to be used in Psychological	Describe the various ethics used in	https://explore.bps.org.uk/content
	Research	Psychological Research	<u>/report-</u>
			guideline/bpsrep.2021.inf180
		Analyse the role of ethics in psychology and	
		specify the research that have considered them	https://www.bristol.ac.uk/Depts/D
		while carrying out the study.	eafStudiesTeaching/dissert/BPS%20
			Ethical%20Guidelines.htm
		Create flashcards for revision on the topic.	
Geography	Weather	Use various sources to research how various	
		weather elements are measured and recorded	https://kisigcsegeography.wordpre
	Objective:	in a conventional weather station.	ss.com/unit-2-3-weather-and-
			<u>climate/</u>
	To investigate how weather is measured	Describe how various instruments are used to	
	and recorded.	measure weather.	https://www.i-
			study.co.uk/igcsegeography/weath
		Examine the factors considered for the location	<u>er.html</u>
		of a weather station.	





		Evaluate the use of digital weather instruments as opposed to conventional weather measuring instruments. Draw and label diagrams of various weather measuring instruments. You should be able to read various weather charts and maps. Create flashcards for revision on the topic.	https://www.geographyalltheway.com/igcse geography/gcse-weather/weather instruments.htmhttps://www.thegeographeronline.net/weather-and-climate.html
History	What was the impact of Stalin's economic policies? Introduction of five years' plans	Analyse the reasons for the introduction of Five-Year Plans & evaluate the internal and external factors for the introduction of the five years' plan.	





		Analyse the features and data of first three five	3. Useful timeline and sources on
		years' plans. Make a tabular representation of	collectivisation:
		the main features of each of the three Five-Year	www.johndclare.net/Russ10.htm
		Plans including facts and figures.	
			4. Soviet posters/propaganda:
		Examine the reasons for the introduction of	www.iisg.nl/exhibitions/chairman/s
		collectivisation. Analyse and categorise the	ovintro.php
		factors responsible for the introduction of	
		collectivisation by Stalin. Make a mind-	
		map/tabular categorization of reasons for	
		collectivisation such as socialism in the	
		countryside (ideological), modern farming	
		methods, stop famine, feed the workers and	
		soldiers in urban areas, and removal of the	
		Kulaks.	
Environmental	Water and its management	1. Outline the treatment of water to	<u>www.3Valleys.co.uk</u> - Provides
Management		make it potable, eg describe and	water hardness data for local area;
	Objective: To investigate on any one	explain the need for filtration,	,
	of the following projects.	sedimentation and chlorination.	





	2. The effects of water pollution	various resources for education and public
	 a. Natural cause: example the arsenic poisoning of groundwater in Bangladesh; b. Human cause: example the effects of overuse of alum in 	www.anglianwater.co.uk - Various resources including education, environment www.dwi.gov.uk - Drinking water
	water treatment at Camelford. 3. Fluoridation of water supplies in the UK.	inspectorate; some useful resources, maps etc/pubs/hardness; useful links page
	 Describe and explain the importance of a reliable pure water supply in everyday life. 	www.hardwater.org - Nature, problems, testing, treatment, water softeners and conditioners





	Describe and explain how water is used in everyday life and why it is important not to waste it.	www.midkentwater.co.uk - Various resources including education; graph of water use over 24 hours www.southeastwater.co.uk - Various resources including water consumption and description of water purification, environment, etc www.southernwater.co.uk - Various resources including education, environment www.stwater.co.uk - Various resources including pdf pupil worksheets
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			www.thames-water.com - Has an education site at www.waterinschools.com www.wessexwater.co.uk - Various resources including education
ICT	Objective: To evaluate the use of different satellite systems (e.g. Global Positioning Systems (GPS), satellite navigation, Geographic Information System (GIS), media communication systems) and their features.	 Encourage your child to research how car satellite navigation systems work (through Global Positioning Systems (GPS)). Why might they go wrong? (Cars going into rivers etc.) Discuss a news story about a missing plane or boat, e.g. Malaysian missing plane in 2014. Ask learners to research this case and write a report on how it was tracked through GPS and other satellite data. 	https://learnlearn.uk/igcseict/6-16-satellite-systems/





Computer Science		Motivate your child and encourage the	Logic Gates How it works,
		curiosity on Basic Logic gates	Application & Advantages
	Objective:	, , ,	(electricity-magnetism.org)
		Describe the truth tables of all the logic circuits	
	Explore the functions of basic logic gates	and its truth tables	
	AND,OR,NOT,NAND, NOR, XOR		The Logic Gate's Role in Modern
		Research on the real world applications of	Education Systems: Enhancing
		logic gates.	<u>Learning Efficiency - TechieScience</u>
Physical Education	Skill and Skill acquisition-Analyse a sport	Research and describe how would apply to you	Cambridge IGCSE Physical Education
	you regularly play in terms of the skill	when performing a sport, you regularly play	(0413) (cambridgeinternational.org)
	and skill acquisition.	and ways of using these characteristics as focus	
		for coaching/training and overall improvement	
		in skills.	
Art	Creative process	To experiment with the content and	www.studentartguide.con
		composition from their initial research to the	
		finish.	





		To refine ideas using a range of resources, media and techniques, including image manipulation. Developing, exploring, refining and investigating composition, materials, content and context.	
French	 Comment rester en forme : page 38 Une vie saine Les rapports avec les autres page 62 Je me détends chez moi page 64 Les verbes pronominaux: moi/toi/lui/elle Les adverbes de fréquence La négation Les quantificateurs 	Writing: Students are requested to prepare a blog/conversation/ email talking about how to stay healthy/ the relationship with others/ what you do to relax at home. Speaking: Students are requested to prepare a conversation/ podcast talking about how to stay healthy/ the relationship with others/ what you do to relax at home. Reading: Selected reading task paper about the mentioned topics (IGCSE). Listening: Selected reading task paper about the mentioned topics (IGCSE).	https://youmatter.world/fr/categor ie-societe/vivre-plus-longtemps- sante-longevite-habitudes/ https://quizlet.com/gb/578189512/ je-me-detends-chez-moi-flash- cards/ https://www.youtube.com/watch? v=jGVPqV04am4





Arabic (Arabs)	قصة الرجل العجوز عند الجسر قصيدة شيخ العرب بلاغة التقديم والتأخير	 تحليل مظاهر مدح الشاعر للشيخ زايد استخلاص مظاهر البلاغة في القصيدة تعليل شيوع الأسلوب الخبري في القصيدة 	https://2u.pw/VcTEUdm https://mawdoo3.com/%D8%A3%D
	نحو الضمائر	 البحث عن اهتمام الشيخ زايد بالزراعة تحليل العناصر الفنية في القصة الدلالة على تقنيات كتابة القصة (وصف سرد حوار) وصف شخصيات القصة داخليًا وخارجيًا شرح أغراض التقديم والتأخير مع الشواهد البحث عن أمثلة وشواهد للضمائر من القرآن والشعر 	9%85%D8%AB%D9%84%D8%A9_% D8%B9%D9%84%D9%89_%D8%A7 %D9%84%D8%AA%D9%82%D8%AF %D9%8A%D9%85_%D9%88%D8%A 7%D9%84%D8%AA%D8%A7%D8%A E%D9%8A%D8%B1
Arabic (non-Arabs)	العمل والتطوع الأهداف أن يصف التلميذ العمل التطوعي أن يوضح التلميذ قيمة وأهمية العمل أن يحلل التلميذ النص أدبيا أن ينشيء التلميذ سيرة ذاتية	The students can create conversation for an interview The students can make posters about the volunteer work The students can create magazine about types of volunteer work The students can create a donation campaign. The students can create CV	The Interactive Arabic العربية التفاعلية العربية التفاعلية العربية التفاعلية المنصة كتبي KUTTubee platfform The Winchester School YouTube Channel https://www.youtube.com/watch? v=tQ4YtAiQypg





Islamic Education (Arabs)	الإيمان بالغيب الجهاد في سبيل الله	البحث عن الآيات والأحاديث الواردة في الغيب والإيمان به	https://uae- school.com/archives/33434#google
(A1403)	ذو القرنين والرجل الصالح	كتابة بحث مختصر يرد فيه الشبهة القائلة بان الإسلام فوبيا	vignette
		ودين عدواني	https://uae-
ı		اليحث في سيرة ذو القرنين واستنتاج المستفاد من قصته	school.com/archives/38016
			https://uae- school.com/archives/38013





Islamic Education	Topic: Shaikh Ahmad Ibn Abdul Aziz AL-	Activities	https://www.abudhabiawards.ae/e
(Non-Arabs)	Mubarak	1- Make research about his achievement	n/recipient/the-late-al-sheikh-
	Learning Objectives: 1- Identify the features of shaikh	in the development of society 2- Prepare a research paper about his	ahmed/
	Ahmad's character	biography	
	2- To evaluate his important role and achievements	3- Make a research about the 6 books of sunnah and its compilers and their	https://www.newmuslims.com/less ons/83/preservation-of-sunnah-
	Topic: the scholars' efforts in preserving sunnah	criteria to choose the narration	part-1
	1- to conclude the efforts of		
	scholars to save sunnah from corruption		





Moral Education	Topic: The Good Citizen	Describe the characteristics of a good Emirati	وثيقة قيم وسلوكيات المواطن الإماراتي
		citizen, text reading, group discussion	(fahr.gov.ae)
	Learning Objectives:		
	To describe what a good citizen is		
	To discuss the roles and responsibilities		
	of Emirati citizens		