



Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	Topic: Descriptive/Narrative Learning objective: To be able to practice the various skills that are needed for the IGCSE exam	 Watch the movie A beautiful mind and attempt the following. Write a descriptive piece on any one scene of your choice. Write a narrative piece by changing any one act of the movie Imagine that you are Russell Ira Crowe, write an interview based on your experience during the making of the movi 	http://viooz.co/movies/1473-a-beautiful-mind-2001.html
English 2 nd Language	Reading ComprehensionArticle Writing	 Encourage your child to read any article from a newspaper or magazine. Ask them to write a summary of 100 words picking out the key points from the article. Have a discussion with your child on the topic and get him/her to research using the internet. Discuss with your child the precise vocabulary and terms needed to write the article on Expo 2020 	www.gulfnews.com www.englishforeveryone.org





English Literature	Comparing short stories with the novel being read in class	 Ask your child to write an article on Expo 2020 and its effects on the toursim in UAE *Encourage them to make a power point presentation on the same topic. This will help them focus on the points needed to write the article. Analyse short stories in the given link and compare them with the novel you are reading in class. 	https://www.classicshorts.com/
Literature	being read in class	 Analyse: a. The development in characters b. The development of the plot c. Narrative techniques 	
Mathamatics	INTECDATION	Author's writing style Descerb on the application of integration	https://tutorial.math.lamar.adu/ala
Mathematics Additional	 Extend the idea of 'reverse differentiation' to include the integration of e ax + b, 1/ax b sin(ax + b), cos(ax + b), sec² (ax + b) Use trigonometrical relationships in carrying out integration. 	Research on the application of integration 1. An Architect Engineer uses integration in determining the amount of the necessary materials to construct curved shape constructions (e.g. dome over a sports arena) and also to measure the weight of that structure. 2. In Electrical Engineering, Integration is used to determine the exact length of power cable needed to	https://tutorial.math.lamar.edu/classes/calcii/integrationbyparts.aspx https://tutorial.math.lamar.edu/problems/calci/substitutionruleindefinite.aspx





	 Evaluate either a definite or an indefinite integral. Apply Integration to evaluate the area under the curve. 	connect two substations, which are miles away from each other. 3. In Physics, Integration is very much needed. For example, to calculate the Centre of Mass, Centre of Gravity and Mass Moment of Inertia of a sports utility vehicle. A graphics artist uses calculus to determine how different three-dimensional models will behave when subjected to rapidly changing conditions	https://math.libretexts.org/Course s/Mount_Royal_University/MATH_ 1200%3A_Calculus_for_Scientists _I/4%3A_Integral_Calculus/4.1%3 A_Integration_by_Substitution https://www.youtube.com/watch?v =PyLXFY3VkNE https://liavas.net/courses/calc1/fil es/Exp_log_trig_integration.pdf https://qedinsight.wordpress.com/ 2012/02/26/a-neat-trick-for- determining-the-integrals-of-expx- cos-x-and-expx-sin-x/ https://www.mathsisfun.com/ca lculus/integration-by-parts.html
Mathematics Extended	Linear Programming	Activity: Create a travel graph story by matching the graph to a story and	https://www.youtube.com/watch?v=IQ35R6CWqd8
LATORIGO	Learning objective:To graph linear inequalities and	write atleast two points to support your decision.	https://www.youtube.com/watch?v
	show regions that satisfy	 Research on all the features that are included in a travel graph. 	<u>=llwvSzfUkOY</u>





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inequalities with horizontal and vertical lines.

- To describe the region that satisfies the given inequalities
- Analyse and graphically solve any linear programming problems and determine the minimum or the maximum for the given application word problems

Travel Graphs

Learning objective:

- Interpret and calculate the total distance, average speed and acceleration from the given travel graph
- Interpret and calculate the acceleration from the gradient and the total distance travelled as area under a speed-time graph

• Create a travel graph of your journey from home to school and return journey.

Analyse the given question on modelling constructions with mathematics.

The diagram shows the position of the goalie and the puck during a hockey game. The goalie is at point G. and the puck is at point P.

What should be the relationship between PG and ∠APB to give the goalie equal distances to travel on each side of PG?

Reason out: Your friend says it is impossible for an angle bisector of a triangle to be the same line as the perpendicular bisector of the opposite side. Is your friend correct? Explain your reasoning.

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





	Draw and complete the speed- distance –time graph with the given the distance and time of travel		
	 Constructions Learning objective: To bisect a line segment or an angle using a scale and a pair of compasses. To construct triangle given the length of the sides of the triangles. 		
Statistics	TOPIC: Collection of Data: Learning Objective: To differentiate between different types of day for eg	Fun quizzes to test students' knowledge. https://quizlet.com/147475753/types-of-data-gcse-maths-flash-cards/	https://mathsmadeeasy.co.uk/gcse- maths-revision/types-of-data- revision/





quantitative and qualitative, discrete and	
continuous data etc.	

To recognize data can be obtained from primary and secondary sources.

Understand meaning of terms Population, sample and census. Understand reasons for sampling, design and use a sampling frame.

Use Peterson's data capture technique to estimate population sizes and know the assumptions made.

Understand the use of random numbers, Be able to select a random sample, or a stratified sample

Activities based on reiterating the assumptions made when using the data capture technique (not the method of calculation)

Show students how random numbers can be generated. Random number tables can easily be obtained by searching the internet.

https://www.bbc.co.uk/bitesize/guide
s/zwcw6yc/revision/1

https://resources.collins.co.uk/free/978-0-00-811381-

<u>0_Edexcel%20GCSE%20Maths%20</u>
<u>Higher%20Student%20Book_Ch18_</u>
Supplement.pdf

https://resources.collins.co.uk/free/978-0-00-811381-

<u>0_Edexcel%20GCSE%20Maths%20</u> <u>Higher%20Student%20Book_Ch18_</u> <u>Supplement.pdf</u>

https://www.youtube.com/watch?v=T h7e-8ewpj0





Physics	<u>Momentum</u>		
	Understand the concepts of momentum		https://www.savemyexams.co.uk/not
	and impulse		es/igcse-physics-cie-new/1-general-
	• Recall and use the equation momentum =	Research on	physics/1-6-momentum/1-6-1-
	mass × velocity, p = mv • Recall and use	Momentum in collisions of different types and momentum in	momentum/
	the equation for impulse Ft = mv – mu	sports	
	Apply the principle of the conservation of		https://www.savemyexams.co.uk/not
	momentum to solve simple problems in		es/igcse-physics-edexcel-new/1-
	one dimension		forces-motion/1-3-momentum/1-3-1-
	<u>Vectors</u>	Draw scale diagrams for finding resultant vectors	momentum/
	Understand that vectors have a magnitude		
	and direction		https://www.youtube.com/watch?v=B
	Demonstrate an understanding of the		<u>OJDKUSSANO</u>
	difference between scalars and vectors		
	and give common examples • Determine	Research on evolution of stars and redshift of galaxies	https://www.physicsandmathstutor.c
	graphically the resultant of two vectors		om/physics-revision/gcse-aqa/space-
	Revision Space Physics		physics/





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Polymers:

- To enlist the uses of polymers.
- To explore, compare and contrast the types of polymerization with examples.
- To discuss and justify that polymers are the necessary evils to humans.

Revision on

- Chemical bonding
- Acids and bases.
- Organic chemistry: Alcohols and carboxylic acids
- Polymers: Condensation and addition polymers
- Electrochemistry

- Make a flow chart to compare condensation and additional polymerization. Mention their uses. Use Piktochart/Canvas.
- Create a revision notes using the key terms for the following topics.
- To distinguish between covalent and ionic bonding.
- To elaborate the different methods of salt preparation.
- To compare acidic, basic, neutral and amphoteric oxides.
- To compare and elaborate the 2 methods of making of alcohol.
- To write the balanced chemical equations for reactions of alcohols and carboxylic acids.
- To predict the product for molten, aqueous, dilute and concentrated solutions.

https://www.savemyexams.co.uk/not es/igcse-chemistry-cie-new/14organic-chemistry/14-3-polymers/14-3-1-polymers/

https://www.youtube.com/watch?v=H HT0S2Tpi8Q

https://www.youtube.com/watch?v=9 zdKq2-6Qm8

https://www.youtube.com/watch?v=q IOSm31MUdA

https://www.youtube.com/watch?v=l
pM VCMPFuq

https://www.youtube.com/watch?v=3

 $\underline{YeXGpDdgZw}$

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

WBf9s56H7E

https://www.youtube.com/watch?v=-d14DmSBuAQ





Dialomy			https://www.youtube.com/watch?v=V KmdYYPexbs&t=25s https://www.youtube.com/watch?v=7 ullq_Ofzgw https://www.youtube.com/watch?v=8 7K8QsMl8nc
Biology	 Variation and selection State that continuous variation results in a range of phenotypes between two extremes; include body length and body mass. State that discontinuous variation results in a limited number of phenotypes with no intermediates. Describe gene mutation as a random change in the base sequence of DNA. 	 Investigate and present the data using various traits demonstrating continuous and discontinuous variation. Create a infographic poster on the types and caused of mutation and their effect. Make a booklet explaining the adaptation of xerophytes and hydrophytes. 	https://biology- igcse.weebly.com/continuous- discontinous.html https://www.youtube.com/watch?v=R XmpVboM040 https://www.youtube.com/watch?v=c UllIkMGc2I





	 Explain the adaptive features of hydrophytes and xerophytes to their environments. Describe adaptation as the process, resulting from natural selection. Describe the development of strains of antibiotic resistant bacteria as an example of natural Selection. Outline how selective breeding by artificial selection is carried out over many generations to improve crop plants and domesticated animals 	 Present Darwins theory of Natural selection. Plan an investigation to demonstrate the effect of penicillin antibiotic on different bacterial strain. 	https://www.youtube.com/watch?v=v nktXHBvE8s https://www.youtube.com/watch?v=H droY9UOG9k https://www.savemyexams.co.uk/as/ biology/cie/22/revision-notes/10- infectious-diseases/10-2- antibiotics/10-2-2-antibiotic- resistance/
Food and Nutrition	Food additives Packaging Labelling	<u>Food additives:</u> Learners can prepare a short presentation to persuade a supermarket to take their products. With two versions of the same product (for example a pasta bake or a dessert),	Food additives: https://www.foodafactoflife.org.uk/se arch-results?q=additives





		product A does not contain any additives and product B uses	Packaging and labelling:
		additives – which one will the supermarket take and why?	https://www.wrap.org.uk/
		<u>Packaging and labelling:</u> Learners can use examples of packaging from food at home and investigate how the packaging contains the food, identifies the food, protects the food and increases the shelf-life of the food product.	Labelling https://www.food.gov.uk/safety- hygiene/best-before-and-use-by- dates
		<u>Labelling:</u> Learners can create a specification or list of criteria from which to make their own food labels for dishes made in practical sessions.	
Economics	 To determination of foreign exchange rate in foreign exchange market Discuss the causes of foreign exchange rate fluctuations Discuss the consequences of 	 Learners explore recent reports of currency movements and use this to identify possible reasons for exchange rate changes. Learners classify factors into ones affecting the demand for a currency and those affecting its supply (if necessary. 	http://www.xe.com/ https://www.economicsonline.co.uk/g lobal_economics/exchange_rates.ht ml/
	foreign exchange rate fluctuations	Learners explore the consequences of exchange rate changes and discuss the reasons why a government	https://www.tutor2u.net/economics/re ference/exchange-rates-an- introduction





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•	Anayse the difference between
	floating and fixed foreign exchange
	rates.

- Illustrate structure of BoP.
- Analyse the causes of current account deficit and surplus
- Discuss consequences of current account deficit and surplus
- Evaluate the policies to achieve the balance of payments stability

might encourage its exchange rate to either appreciate or depreciate against other currencies.

- Learners explore how the price elasticity of demand for exports and imports might influence how an appreciation or depreciation would affect the total value of exports and imports.
- Learners consider whether their own currency is currently over- or under-valued against other countries and therefore whether it should be allowed to appreciate or depreciate.
- They recommend the best strategies for the government to use to enable the currency value to change.
- Learners use supply and demand analysis to explain how a government could manage the supply and demand of its currency, to keep it within a fixed range.
- Learners explore the structure of the current account for their own country and others.

https://www.economicsonline.co.uk/definitions/current_account.html/#:~:text=Current%20account%20%E2%80%93%20definition,an%20economy%20are%20called%20debits.

https://www.economicshelp.org/blog/glossary/current-account-bop/





 Learners by creating pie charts to show the relative sizes of each component and comparing these across different countries. Learners explore possible consequences of current account deficits and surpluses. Learners explore how the price elasticity of demand for imports and exports would affect the extent to which a change in the currency value would correct a current account imbalance. Explain how the use of a floating exchange rate could 	
be used to correct a current account deficit or surplus.	





Accounting	 To evaluate the capital structure of a limited company comprising preference share capital, ordinary share To prepare relevant financial statement pertaining to Limited liability companies. 	 Research on the Limited liability companies in UAE, and compare and contrast how a it is different from sole trading business. Prepare a guide/ presentation on setting up a business in the UAE – the legal requirements Evaluate the financial statements prepared at the end of the financial year. 	www.dineshbakshi.com www.cie.org.uk www.myaccountinglab.com https://www.hfw.com/A-guide-to- setting-up-a-business-in-the-UAE- the-legal-requirements
Business Studies	 To interpret the need for government intervention in business activity To identify the policies implemented by the Government. To develop knowledge of the role of the government in influencing business decisions 	 Find out the present forms and rates of direct and indirect taxes such as income tax, taxes on purchases (such as VAT), business taxes and excise duty in your country. Determine the value of the US Dollar against the following currencies for the period Jan 2022- Dec 2022 and give your opinion: Euro British Pound Indian National Rupee 	 <u>Direct Taxes & Indirect taxes</u> <u>Definition, Types,</u> <u>Advantages & Disadvantages (cleartax.in)</u> <u>Direct Taxes & Indirect taxes</u> <u>Definition, Types,</u> <u>Advantages & Disadvantages (cleartax.in)</u>





		4. Australian Dollar5. Singapore Dollar	
Travel and Tourism	To investigate the role of UAE Government in development of TT Industry.	 Research on role of UAE Government in Promotion of Tourism. Explain how specific travel and tourism products are developed to cater for the needs and expectations of different market segments. Present o report or PPT or Prezi Presentation on the Topic. 	www.wto.org Using the Internet, https://u.ae/en/information-and- services/visiting-and-exploring-the- uae/travel-and-tourism https://www.economy.gov.ae/english /Knowledge-Section/Tourism- Promote/tourism- sector/Pages/patterns-of- tourism.aspx http://www.dubaided.ae/Documents/ Dubai-economic- report/Chapter%204.pdf The Encyclopedia of DUBAI, and other sources. Coggle.it





			Stormboard.com Canva.com- Creating Posters Pictochart.com
Sociology	Education: To evaluate Hidden Curriculum	What are the things that you need to investigate if you start an educational system without a hidden curriculum? Will that be possible?	Sociology Course book.Jonathan Blundell
Psychology	Sleep & Dream: Evaluation of internal and external factors	Evaluate the impact of internal and external factors on sleep with real life examples.	Psychology course book; https://www.sleepadvisor.org/sleep- factors/#:~:text=The%20internal%20f actors%20that%20affect,and%20alc ohol%2C%20and%20certain%20foo ds.
Geography	Environmental risks of economic development	For a named region you have studied identif the environmental degration caused due to economic activities.	https://www.thegeographeronline.net /environmental-risks-of-economic- development.html





	To investigate the different types of pollution caused due to economic activities.	Create a mind map showing the different human and physical causes of green house effect.	
History	Evaluate the economic policy of Stalin.	Examine the aims, implementation & impact of the economic policy of Stalin to assess it's success/failure.	Text book; https://www.lib.uchicago.edu/collex/exhibits/soviet-imaginary/technology/industrialization-and-collectivization/#:~:text=In%201928%20Stalin%20introduced%20an,energy%20generation%2C%20and%20steel%20production.https://www.studysmarter.co.uk/explanations/history/tsarist-and-communist-russia/stalins-economic-policies/
Global Perspectives	GROUP PROJECT-Component 3	Formulating the objective, explanation and individual reflective paper for group project-Component 3 & aligning the assessment objectives with the rubric parameters.	Global Perspectives IGCSE Textbook





			https://iqcseqlobalperspectives.net/te am-project/
			https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-global-perspectives/case-studies/showcase-of-student-projects/
			https://www.youtube.com/watch?v=v 2b9ICPH2eA
Environmental Management	Topic: Humans and natural ecosystems Objective: Investigation skills	Use the internet and available resources to explore the techniques of estimating biodiversity of mobile and sedentary species in an ecosystem.	https://www.field-studies- council.org/resources/16-18- biology/fieldwork-techniques/the- basics/
		 Evaluate the use of Quadrats, systematic and random sampling of plants in a small forest near the school. 	





		Evaluate why the use of random sampling may be preferred in place of systematic sampling.	
ICT	Theory: Applications of ICT Practical	 Encourage your child to practise practical past papers on Data manipulation, spreadsheet and Web authoring concepts. Discuss and evaluate the applications of ICT 	www.igcseict.info





Computer Science	Topic:Computer Architecture Learning Objective: Students will be able to explain the various types of bus. Students will be able to define the Von Neumann architecture of computer Student will be able to list out various registers and bus used in the Computer Architecture	Draw up a summary table that shows how buses, registers and addresses are all connected together. List out the uses of given components in the table: Program counter Registers Accumulator Memory unit ALU CU Explain how the flow of control in the processor is carried out for simple operations like addition of two numbers. Also discuss and help the child to research on the steps of process to be carried out to perform a task Encourage the child to research and read online to get information but write in their own words after understanding.	www.youtube.com/watch?v=_76g8E M4DVU www.softpedia.com/get/Others/Hom e-Education/Logic-Gate- Simulator.html
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Physical Education	 Coursework Psychology Social, cultural and ethical influences 	 To present and perform the games and sports for the final submission. Note down in your reflective log how you can use goal-setting to control anxiety and other negative factors. Reflect on the levels of arousal you experience when taking part in sports competitions or physical activity. Where do you typically fall on the inverted U chart? Are there aspects of your preparation that you could improve? 	www.bbc.co.uk www.teachpe.com
Art	Presenting portfolio for submission and updating the missing works.	To present the completed portfolio for final submission ensuring the component requirements are fulfilled.	www.studentartguide.com
French	 La comparaison La métaphore Si "L'hypothèse" Reading 	 To identify and use the 3 new figure style (La comparaison, La métaphore, Si "L'hypothèse") in the writing. Practice on reading tasks Practice on listening tasks Writing: to improve the writing skills by using variety of figure style, grammar concept, sentence structure. 	https://papers.gceguide.com/Cam bridge%20IGCSE/French%20- %20Foreign%20Language%20(052 0)/2021/ https://www.alloprof.qc.ca/fr/eleve s/bv/francais/la-comparaison- f1369





	ListeningWriting		https://papers.gceguide.com/Cam bridge%20IGCSE/French%20- %20Foreign%20Language%20(052 0)/2021/ https://www.alloprof.qc.ca/fr/eleve s/bv/francais/la-metaphore-f1370
Arabic (Arabs)	اسم النفضيل: Learning objectives: . أن يحدد الطالب اسم النفضيل من القطعة - . أن يستنتج صور اسم النفضيل من الفعل الثلاثي - . وغير الثلاثي . أن يوظّف اسم النفضيل في مواقف حياتيّة - TOPIC قصة قصيرة-نظرة Learning objectives: أن يحدد الطالب كيف نصل إلى الفكرة العامة في القصة؟ أن يحدد الطالب الفكرة الرئيسة في القصة؟ أن يوضح الطالب العبارات والصور البيانية أن يوضح الطالب العبارات والصور البيانية الموضعة.	مثّل لكل نوع من أنواع اسم التفضيل: مجرد من أل والإضافة. محلى بأل . هات مثالا لا: لتمييز وقع بعد أفعل التفضيل - يأتي الطلاب بأمثلة عن التفضيل ، يعرض فيها مقارنات بين الإمارات وبعض الدول المتقدمة سجل بعض خصائص النص كما تراها . حلل أحد التشبيهات الموجودة في النص - حدد عناصر القصة القصيرة -	https://www.youtube.com/watch?v=p I5BGnN-Cdc http://www.qyias.com/quizzes/2016/2 65





	أن يحدد الطالب المعنى المناسب للكلمات -	حلل قصة انظارة طبية إلى عناصرها - اعد كتابة القصة مرة ثانية -	http://www.almaany.com/ar/dict/ar-
	متعددة المعاني من خلال السياق	باسلوبك الخاص	<u>ar/</u>
	أن يحدد الطالب كيف يقدم الكاتب الشخصية	ضع نهاية أخرى للقصة -	
	الرئيسة وأهميتها في القصة المنات المن	قارن بين هذه القصة وقصة أخرى من الأدب العربي- إجراء اختبار ختامي	
	أن يحلل المتعلم الشخصيات من خلال أفكار ها - و أفعالها و أقو الها	قصير للتأكد من مستوى التعلم لدى الطلاب من خلال ورقة	
	والمعنائي والمعالم التقايات التي استخدمها الكاتب من	-55 62 - 64 +5 - 4 65 -	
	ري بي . أجل وصف شخصياتها		
Islamic	وصايا وتوجيهات أخلاقية - المتواتر :TOPIC	يبين الدلالات الواردة في الآيات 1.	
Education	والآحاد- الشورى في الإسلام	يستنبط شروط الحديث المتواتر 2.	
(Arabs)	Learning objectives:	يستنتج فوائد الشورى 3.	https://www.youtube.com/watch?v=d
	يستنتج المبادئ والتوجيهات الأخلاقية 1.		<u>dj-zUwwuac</u>
	الواردة في الآيات.		
	يفرق بين المتواتر والآحاد من الحديث 2.		
	يوضح معنى الشورى 3.		https://www.youtube.com/watch?v=r
			GV7mCsRcSk
			<u> </u>





			https://www.youtube.com/watch?v=l HbcRJJj0z4
Islamic	1. The Holy Quran and the Scientific	Write an essay or a journal report about Miracles in Al Quran Al	https://www.youtube.com/watch?v=e
Education (Non	<u>Miracles</u>	Kareem.	<u>rGmdSPQ1xs</u>
Arabs)	-Define the concept of scientific miracles -Compare scientific miracles to scientific exposition -Clarify the importance of scientific miracles	Design an awareness bulletin on the importance of the etiquettes of dialogue.	https://www.youtube.com/watch?v=6 9XTD46v4qU
	2. Etiquettes of Dialogue		
	 To comprehend the importance of etiquettes of dialogue.(by referencing Quran & Hadeeth) To clarify the concept of freedom of speech and intolerance.(by examples of real life). 		





To evaluate the consequences of ill-mannered speech on an individual and on the society.	





Moral	Active Citizenship	1. Define 'volunteering'.	https://active-
Education	To discuss the importance of being active	2. Identify and explain at least four attributes or qualities of	<u>citizens.britishcouncil.org/about</u>
	in the community	volunteers.	
		3. Write a position paper of about 250 words on volunteering.	
	To suggest some initiatives to be done in the community		