



Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	To practise the various skills that are needed for the IGCSE exam	 Go through the various links provided to you and then attempt the following task. Prepare a Glogster on any descriptive writing topic of your choice. Prepare a short video using the narrative writing rules. 	http://igcse- revision.wikispaces.com/La nguage+Exam http://classroom.synonym.c om/difference- betweendiscursive- argumentativeessays-2616.html
English 2 nd Language	 Reading Comprehension Letter Writing Article Writing Vocabulary Features of Academic Writing 	 Imagine you have invented a new device. Write a letter to your friend telling him/her what it is, why you invented it, what inspired you and how useful it is. Also mention the concerns you have about the device. Write an article for your school magazine on your views about the idea of having compulsory after school lessons. 	www.englishforeveryone.or g http://esligcse.webs.com www.streetdirector y.com//benefits of after school programs.html





Mathematics	Trigonometry (Based on Gap •	Research on the application of trigonometry in various	https://www.cimt.org.uk/project
(Extended)	Analysis)	fields such as architects, surveyors, astronauts,	s/mepres/step-
	Solve trigonometric	physicists, engineers and even crime scene	up/sect4/index.htm
	problems in two	investigators.	http://www.mathcentre.ac.uk/r
	dimensions involving •	A computer cannot obviously listen to and	esources/Engineering%20maths
	angles of elevation and	comprehend music as we do, so computers represent	%20first%20aid%20kit/latexsour
	depression.	it mathematically by its constituent sound waves. And	ce%20and%20diagrams/4_6.pdf
	• Know that the	this means sound engineers need to know at least the	
	perpendicular distance	basics of trigonometry. And the good music that these	https://www.youtube.com/watc
	from a point to a line is the	sound engineers produce is used to calm us from our	h?v=I8LI7wPSvNI
	shortest distance to the	hectic, stressful life.	
	line.		
	 Recognise, sketch and 		
	interpret graphs of simple		
	trigonometric functions.		
	Graph and know the		
	properties of		
	trigonometric functions.		





	• Solve simple trigonometric equations for values between 0° and 360°		
Mathematics	Shape and Space	Watch videos on the following topic. These are interactive task	https://www.wiziq.com/tutorial/
(Core)	To revise the concept angles	based videos for practice:	55344-IGCSE-GENERAL-
	in 2D and 3D shapes	Number	REVISION-TEST-1-ON-NUMBERS
	• To recall and use	https://www.wiziq.com/tutorial/55344-IGCSE-GENERAL-	https://revisionmaths.com/gcse-
	properties of angles at a	REVISION-TEST-1-ON-NUMBERS	maths-revision
	point, angles at a point on	https://revisionmaths.com/gcse-maths-revision	http://www.gcsemathstutor.co
	a straight line (including	Angle Properties:	m/angles.php#point
	right angles),	http://www.gcsemathstutor.com/angles.php#point	http://www.bbc.co.uk/schools/g
	perpendicular lines and	http://www.bbc.co.uk/schools/gcsebitesize/maths/geom	csebitesize/maths/geometry/pol
	opposite angles at a vertex	etry/polygonsrev1.shtml	ygonsrev1.shtml
	To understand and use the	http://www.mathsrevision.net/gcse-maths-	http://www.mathsrevision.net/g
	angle properties of	revision/shape-and-space/angles	cse-maths-revision/shape-and-
	parallel and intersecting	Parallel and perpendicular lines:	space/angles
	lines, triangles and	http://www.bbc.co.uk/schools/gcsebitesize/maths/geom	http://www.youtube.com/watch
	quadrilaterals	etry/parallellinesrev1.shtml	?v=GYGHSBtvVoA





	To calculate and use the	http://www.youtube.com/watch?v=hcu3AkzuYDs	http://www.youtube.com/watch
	sums of the interior and	Angles in polygons	?v=6CSD5 408yE
		•	
	exterior angles of	http://www.youtube.com/watch?v=GYGHSBtvVoA	http://www.youtube.com/watch
	polygons	http://www.youtube.com/watch?v=6CSD5_4o8yE	?v=E3UtNz6xMIU
	• To recall the properties	http://www.youtube.com/watch?v=E3UtNz6xMIU	http://www.youtube.com/watch
	and definitions of special	Linear equations	?v=1F0kadHizME
	types of quadrilateral,	http://www.youtube.com/watch?v=1F0kadHizME	http://education-
	including square,	http://education-portal.com/academy/lesson/properties-	portal.com/academy/lesson/pro
	rectangle, parallelogram,	of-shapes-triangles-circles-and-rectangles.html#lesson	perties-of-shapes-triangles-
	trapezium, kite and		<u>circles-and-</u>
	rhombus		rectangles.html#lesson
Additional	Permutation and	• Research on the application of permutation combinations in	https://www.khanacademy.org/
Mathematics	combinations	the areas of combinatory, communication networks,	math/precalculus/prob-
	Definitions of permutation	cryptography and network security - Permutations are	comb/combinations/e/permutat
	and combination	frequently used in communication networks and parallel and	ions_and_combinations_2
	The product principle	distributed systems. Routing different permutations on a	https://ooroga.wordpress.com/2
	 Arranging n unlike things 	network for performance evaluation is a common problem in	013/04/05/combinations-vs-
	taken all together	these fields. Many communication networks require secure	permutations-in-real-life/





	1		T
	Arranging n unlike things	transfer of information, which drives development in	https://www.khanacademy.org/
	taken at a time	cryptography and network security.	math/precalculus/prob-
	• Selecting things from n	• Research on its application in the field of computer	comb/combinations/v/handshak
	different things	architecture.	<u>ing-combinations</u>
		• Design of computer chips involves consideration of possible	http://www.regentsprep.org/reg
		permutations of input to output pins. Field-programmable	ents/math/algtrig/ats5/lcomb.ht
		interconnection chips provide user programmable	<u>m</u>
		interconnection for a desired permutation. Arrangement of	http://www.careerbless.com/ap
		logic gates is a basic element for computer architecture design.	titude/qa/permutations_combin
			ations.php
Physics	Simple kinetic molecular	Research on	
	model of matter	• If a gas is heated, its molecules moves faster. Use the Kinetic	www.skool.co.uk
	Thermal properties	model to make a prediction: What will happen to the pressure	www.Islandphysics.com
	• Relate the properties of	that a gas exerts on the walls of its container when the gas is	www.cie.org.uk
	solids, liquids and gases to	heated?	
	the forces and distances	• Why we can walk through air and swim through water but we	
	between molecules and to	cannot walk through a solid wall - Use the kinetic model of	
	the motion of the	matter.	
	molecules		





- Relate evaporation to the consequent cooling of the liquid
- Describe qualitatively the thermal expansion of solids, liquids, and gases at constant pressure.
- Relate a rise in the temperature of a body to an increase in its internal energy
- Describe an experiment to measure the specific heat capacity of a substance
- Recall and use the equation change in energy = mcΔT

Thermal processes

Conduction

- A thermocouple thermometer is better for measuring rapidly varying temperatures than a mercury-in-glass thermometer. Explain why this is so.
- A simple molecular account of conduction in solids including lattice vibration and transfer by electrons.
- How the amount of radiation emitted also depends on the surface temperature and surface area of a body?
- A simple molecular account of conduction in solids including lattice vibration and transfer by electrons.
- How the amount of radiation emitted also depends on the surface temperature and surface area of a body?





	ConvectionRadiation		
Chemistry	 To outline the process fractional distillation and mention the uses of their fractions Alkenes, Alcohols and Carboxylic acids: To outline the physical and chemical properties of alkenes, alcohols and carboxylic acids. To elaborate the method for the formation of esters and their uses. To enlist the uses of carboxylic 	 physical and chemical properties of alkenes, alcohols and carboxylic acids. Design and present an infographic poster using CANAVA / Glogster to describe the set up and working of electrochemical cells. 	





	Electrolytic cells:		
	To describe the set up and		
	working of		
	electrochemical cells		
Biology	Reproduction in plants &	Reproduction in plants & Humans	Reproduction in plants &
	<u>Humans</u>	• Students can make a report on how horticulturists exploit	<u>humans</u>
	• To define asexual	asexual reproduction in bulbs and rhizomes e.g. daffodils,	https://www.youtube.com/watc
	reproduction and describe	orchids.	h?v=7zzp37y5DFg
	asexual reproduction in:	• Students can create an infographic poster comparing asexual	https://www.youtube.com/watc
	bacteria	reproduction in plants, bacteria & fungi	h?v=DY9DNWcqxI4
	spore production in	• Students can make a flow chart or a graphical representation	https://www.youtube.com/watc
	fungi	to demonstrate menstrual cycle and the levels of hormones	h?v=307icCqFfEo
	> tuber formation in	associated at different phase of it.	https://www.youtube.com/watc
	potatoes	Students can outline the stages of an zygote from fertilization	h?v=vXrQ_FhZmos
	• To discuss the advantages	until it gets implanted in the endometrium	https://www.youtube.com/watc
	and disadvantages to a		h?v=0xvJ-NNuR6M
	species of asexual		
	reproduction		





- To identify on diagrams the organs of male & female reproductive system and state the functions of these parts.
- To describe the menstrual cycle in terms of changes in the uterus and ovaries
- To describe fertilization and outline early development of the zygote simply in terms of the formation of a ball of cells that becomes implanted in the wall of the uterus
- To outline the development of the foetus: describe the





	function of the placenta and the umbilical cord To describe the ante-natal care of pregnant women including special dietary needs and maintaining good health		
Food and Nutrition	● 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.	 How Cooking Affects the Nutrient Content of Foods 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. Since fire was discovered, people have been cooking. Find out how fire was discovered and how it changed the way people prepared food. 	http://www.betterhealth.vic.gov .au/bhcv2/bhcarticles.nsf/pages/ Food processing and nutrition' Food processing and nutrition'. http://www.choice.com.au/revie ws-and-tests/food-and- health/food-and- drink/nutrition/are-fresh-vegies- better.aspx Are fresh veggies better?





	Reasons for cooking 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. 	
Economics	To interpret the shape of economic recessions	 Finland has become the first European Union country to suffer a double dip recession after its economy contracted again in the first quarter of 2010, hit by a port strike in March and a colder than usual winter. Despite a brief recovery during the last quarter of 2009 data showed January-March 2010 GDP has fallen 0.4% since the end of 2009. Export-dependent Finland has one of the deepest recessions in the European Union in 2009, with GDP plummeting 7.8% as the global downturn hit demand for its main export of mobile phones, paper and machines. A recovery is expected to be 	www.wikipedia.org/wiki/Econo mic_growth





		 slow, with growth of just 1.25% in 2010 and 2% in 2011 forecast. According to the article, what is a double dip recession? Why did this occur in Finland? How do you think, or try to find out, how economists might describe a double dip recession in terms of a letter to represent its 'shape.' 	
Accounting	 To interpret the differences between single entry and double entry and Statement of Affairs and a Balance Sheet. To analyse the sources of information to find the missing items from the 	differences between single entry and double entry and Statement of Affairs and a Balance Sheet.	www.myaccountinglab.com www.bized.co.uk www.tutor2u.net www.cie.org.uk Accounting Text books





	given data for a sole trader business.	 Bills payable Sundry debtors Cash in hand and at bank Stock in the beginning. Present your findings in form of PPT or a Prezi.	
Business Studies	To understand and analyse what motivates employees to work all the motivation theories what makes some companies great places to work for	how is it one of the best companies to work for.	http://fortune.com/best- companies/ https://simplebooklet.com/user Files/a/4/0/3/8/1/fPtCc8yAAggL 9aiw9hXspT/FkwYrwdG.pdf https://www.thebalancecareers. com/how-great-managers- motivate-their-employees- 1918772
Travel and Tourism	Identify and describe the Tourism products provided by tourism providers (National/	 Write a descriptive write- up explaining the all products and services provided by tourism providers. To support your answer, draw an 'Itinerary' for 6 people traveling from Dubai 	The local area's tourist or visitor guide





	International). And explain the inter relationship between the various products & services like Tourism & travel, accommodation & catering, ancillary services. To recap and revisit all the topics for Pre Mocks.	to Spain. Include all tourism products you can offer as a tourism provider. Also, make a chart in which explain types of travelling options, types of accommodation services, types of catering/ restaurants', and ancillary services.	provider sites like Thomas
Sociology	Media: • To assess the ownership, representation and perspectives of media	 Research the topic under the following headings: Ownership of media Representation of media Perspectives of media. Watch relevant YouTube videos on the same. Create revision notes in the form of detailed mind maps on the topic. 	www.sociology.org.uk https://igcsesociology.weebly.com/ study-guide.html https://revisesociology.com/tag/ revision-notes/ www.org.co.uk https://sites.google.com/site/ye ar11igcsesociology/revision- guides





			www.s-cool.co.uk
Psychology	Perception: To investigate the different types of perception	How can you apply different types of perceptions in real life?	Edexcel textbook
Geography	Climate and Natural	Investigate the characteristics of climate and natural vegetation of	http://www.bbc.co.uk/educatio
	Vegetation	the equatorial and hot desert. Also watch documentaries or videos	n/gcsebitesize/index.shtml
		on the topic. They will create a revision resource focusing on the	www.geographylwc.org.uk
		following points:	www.geographypages.com
		Climate characteristics (including temperature [mean]	www.geographygeek.co.u
		temperature of the hottest month, mean temperature of the	www.revisionworld.co.uk/level/
		coolest month, annual range]; and precipitation [the amount	geography
		and seasonal distribution])	www.s-cool.co.uk
		• Factors influencing the characteristics of these climates	http://www.gatm.org.uk/
		(including latitude, pressure systems, winds, distance from the	
		sea, altitude and ocean currents)	
		• Climatic graphs showing the main characteristics of	
		temperature and rainfall of the two climates	





History	The 20th century:- International Relations since 1919 How effectively did the USA contain the spread of communism?	 The relationship in each ecosystem of natural vegetation, soil, wildlife and climate Effects on the natural environment (both locally and globally) along with effects on people. Explore the topic using the internet and documentaries and videos. Events of the Cold War Case studies of: American reactions to the Cuban revolution, including the missile crisis and its aftermath American involvement in the Vietnam war, e.g. reasons for involvement, tactics/strategy, reasons for withdrawal American reactions to North Korea's invasion of South Korea, involvement of the UN, course of the war to 1953. Write an Essay: How effectively did the USA contain the spread of Communism? 	https://www.history.com/topics/cold-war/cold-war-history https://www.britannica.com/event/Cold-War https://www.theguardian.com/world/cold-warwww.bbc.co.ukhttps://www.bartleby.com>
Global Perspectives	Migration	 Use the internet to explore various issues and perspectives in the topic Migration. This should include: Reasons for migration Types of migration 	https://www.iom.int/migration https://www.theguardian.com/ world/migration





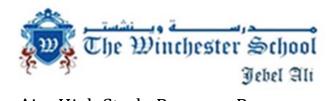
		Effects of migration	https://www.theguardian.com/g
		Anti- migration sentiment	lobal-development/migration
		Migration and development	https://refugeesmigrants.un.org
		Migration and criminality	/migration-compact
		Managing migration	www.oecd.org/migration
		Migration and families	
		• Create a presentation of your choice e.g. Prezi, mind maps,	
		comic strips, video etc. to show your various perspectives-	
		personal, national, global, cultural etc.	
Environmental	Ecosystems under threat	Research on how human activities contribute to damage to	https://news.umich.edu/ecosyst
Management		ecosystems.	em-effects-of-biodiversity-loss-
		What are the cause if habitat loss	could-rival-impacts-of-cli
		Examples of ecosystems under threat from human activities	https://www.nsf.gov/news/news
		Impacts of habitat loss	summ.jsp?cntn_id=124016
		Causes and impacts of deforestation in the Amazon	https://www.worldwildlife.org/t
		<u>Task:</u>	<u>hreats/deforestation</u>
		Create a short presentation on the causes and impacts of	https://news.umich.edu/ecosyst
		possible habitat loss in UAE. What are the measures taken to	em-effects-of-biodiversity-loss-
		stop conserve the ecosystem of UAE?	could-rival-impacts-of-





ICT	Storage Devices and Media	Identify typical uses of storage modia, including types of access.	https://www.iucn.org/resources /issues-briefs/deforestation-and- forest-degradation
	 To identify the uses of storage media devices and to describe the comparative advantages and disadvantages To describe the types of access used by secondary storage devices To explore the security risks 	 using different backing storage media. Define the term backup and describe the need for taking backups. Describe the difference between main/internal memory and backing storage, stating the relative benefits of each in terms of speed and performance. 	https://www.ictlounge.com/htm l/storage_devices_and_media.ht m https://www.ictlounge.com/htm l/data_security.htm





		 Hacking and phishing Reason for hacking and phishing Ways to minimize hacking and phishing 	
Computer Science	 Data Storage To identify the different file formats, describe the methods of error detection and correction Data Transmission To describe the different types of transmission and to distinguish between them To describe range of safety issues related to using 	 (MIDI) files, JPEG files, MP3 and MP4 files. Describe the principles of data compression (lossless and lossy) applied to music/ video, photos and text files. 	http://www.zakonweb.com/zak content/OL%20- %20Computer%20Science%2022 10/OL%20-%20Content/OL%20- %20Paper%201/Notes/PDF%20F ormats/1.1.3%20Data%20storag e.pdf/ http://www.zakonweb.com/zak content/OL%20- %20Computer%20Science%2022 10/OL%20-%20Content/OL%20- %20Paper%201/Notes/PDF%20F ormats/1.2.1%20Serial%20and% 20parallel%20data%20transmissi on.pdf/





		computers and measures	•	Explain how parity bits are used for error detection.	https://www.ictlounge.com/htm
		for preventing accidents	•	Describe the use of serial and parallel data transmission, in	I/effects of using ict.htm/
				Universal Serial Bus (USB) and Integrated Circuit (IC).	
			•	Identify range of safety issues related to using computers and	
				measures for preventing accidents.	
			•	Describe the potential health problems related to the	
				prolonged use of ICT equipment.	
Physical	•	Social, cultural and ethical	•	Leisure and recreation	www.teachpe.com
Education		influences.	•	Growth in leisure activities.	www.cie.org.uk
	•	Coursework	•	The sports development pyramid	www.physicaleducation.co.uk
			•	Sponsorship	
			•	Media and Global events	
			•	Professional and amateur performers	
			•	Technology	
			•	Practical	





Art		a personal and response that entions		www.studentartguide.com
French	To discuss t		Writing: Vivre à l'école comme interne ou vivre à la maison? • Écrivez un article pour votre magazine scolaire. (130-140	http://www.francaisfacile.com/correspondants/google-
	To discuss		 MOTS). Dites où vous habitez pendant l'année scolaire. Quels sont les aspects positifs et négatifs d'être interne. Dites ce que vous avez fait hier soir après les heures de 	results.php?q=FUTURE http://apprendre.tv5monde.com/ http://nosgustalafrance.blogspot.ae/ http://www.hellomylo.com/Challenge/ French
			maison? Expliquez pourquoi. Speaking: Prepare an oral presentation on 1 of these topics: Parle-moi de ta routine au collège. Parle-moi de ton école. Qu'est-ce que tu vas faire comme études l'année prochaine?	





Arabic (Arabs)	الحلاق المثقف <u>1</u> -الحلاق المثقف <u>1</u> - الحلاق الكناية <u>2</u> الكناية <u>3</u> - الشباب سفراء الإمارات . ميساء عدير	- كتابة مقال . - تحليل النص . - البحث عن الكناية في الإيات . - مقارنة النصين .	https://www.youtubhttps://www.youtube.com/watch?v=tcng_4 9rZYY e.com/watch?v=Ae8K1gL4PM0 https://www.youtube.com/watch ?v=fv-ELHrLH-c
	* أن يستعرض الأدلة التي استخدمها الكاتب في المقال * أن يستعرض الأدلة التي استخدمها الكاتب في المقال * يتحدث عن أهمية الشباب ودوره في بناء المجتمع . * يبحث عن كنايات في القرآن. * يصيغ فقرة بها كناية .		





Islamic Education (Arabs)	ا معالم التخطيط في سيرة الرسول (ص)- آداب الحوار - أن يستنتج آداب الحوار والاستماع في الإسلام مع الاستدلال بالقرآن والسنة 2- أن يحدد صفات المحاور في الإسلام	سيكلف الطالب ببعض التكليفات البيتية – سيكلف الطالب ببعض التكليفات البيتية – يحرص على الالتزام بآداب الحوار-ويقتدي بالرسول صاى الله عليه وسلم في حياتة يكتب بحثا عن معلم التخطيط في حياة الرسول (ص)	https://www.youtube.com/watch?v=08xbM1cEHPU
	يوضح منهج النبي (ص) في التنطيط يوضح أهم جوانب الاقتداء في حياته		
Islamic	The Holy Quran and the	Write an essay or a journal report about Miracles in Al Quran	https://www.youtube.com/watc
Education	Scientific Miracles	Al Kareem.	<u>h?v=erGmdSPQ1xs</u>
(Non Arabs)	 Define the concept of scientific miracles Compare scientific miracles to scientific exposition 	Design an awareness bulletin on the importance of the etiquettes of dialogue.	https://www.youtube.com/watc h?v=69XTD46v4qU
	Etiquettes of Dialogue		
	To comprehend the importance of etiquettes of dialogue		





	•	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 Education	•	Being a Global Citizenship	•	Prepare on a collage on an A4 sheet - who is a Global citizenship. Add and evaluate how you could or are a Global Citizen. Read the article provided in the link and discuss with your parents the importance of being a Global Citizen.	https://www.ted.com/talks/hugh e vans what does it mean to be a citizen of the world?language=e n https://buildabroad.org/2017/02/1 7/global-citizen/