



Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	Persuasive SpeechWriting Article writing	 Read the articles from Archive for the 'Opinion' Category. Look at Write a speech based on the motivation. Write a persuasive speech justifying your actions or ideas When proving your points make sure you use the PEE technique. 	https://www.youtube.com/watch?v=09Ad1wiK3uM
English 2 nd Language	 Language and vocabulary Finding key words in the question. Skim and scan techniques of reading and choosing the best response. 	 Read together with your child. Listen to your child read to you or read to your child. Have conversations while reading books together. Encourage your child to create mental image in his/her head. Talk about the meanings of difficult words. Words and their subtle meanings add the most to pictures in your heads and your understanding of the passage. 	http://beginningreadinghelp.b logspot.a e/2010/08/teach- readingcomprehension-with- 7-keys.html http://www.learningrx.com/re adingcomprehension- strategies-faq.htm http://www.usingenglish.com /forum/te aching-





	Eliminatingunnecessay details and writing to point Technique of giving brief, concise and precise answer.	 Show that reading is about getting meaning. Ask questions in between to ensure if your child knows or understands what he/she is reading. Ask your child to determine the most important idea or theme. Emphasize on skim reading the passage for gist before looking at the question. Then ask your child to scan the passage to find the answer to each of the questions in turn. Encourage him/her to make inferences and synthesize information. Share your views on how to give precise and concise answers. 	english/119818-guide- englishigcse-paper-one.html
English Literature	To familiarize students to the cultural background of Scotland.	 Encourage your child to research on Scottish literature. Identify and state the unique features of Scottish writing. Identify common themes in Scottish writing. 	https://en.wikipedia.org/wiki/ Scottish literature https://www.scotland.org/abo ut-scotland/culture/literature





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			https://www.visitscotland.co m/see-do/attractions/arts- culture/scottish-literature/
Mathematics	Trigonometry:		
(Accelerated)	Calculate bearing of a point with respect to	Research on the real life applications of Trigonometry. Present your findings using power point/ video/ Prezi /poster.	www.mathsisfun.com/algebra/t rigonometry.html
	 another Find angle of elevation /depression in word problems Apply sine rule and 	Create notes/formula booklet on Trigonometric concepts. Include examples and figures too	www.mathsteacher.com.au/yea r10/ch15_trigonometry/12_elev ation_depression/23elevdep.ht m https://www.bbc.com/bitesize/
	cosine rule in calculating missing side /angle in non right angled triangles. Calculate area of a	Research on box and whisker plot. Create a box and whisker plot, given quartiles and median.	guides/zqwhjty/revision/1 https://www.cimt.org.uk/proje cts/mepres/step- up/sect4/index.htm https://www.youtube.com/wat
	triangle using the formula, ½ ab Sin C	Research on the applications of stem and leaf diagrams. What is the purpose of using this diagram?	ch?v=JJMZJFWMrpM





And Thermal	
Apply Trigonometry in	www.mathsisfun.com/algebra/t
calculating missing	rig-sin-cos-tan-graphs.html
length/ angle in	www.bbc.com/bitesize/guides/
3D shapes.	zpkdd2p/revision/2
Draw Sine and Cosine	https://www.youtube.com/watc
curves	h?v=z41 PBqYuVg
Solve simple	https://www.youtube.com/watc
Trigonometric	h?v=Q2OF86ZUYMs
equations	
Box and whisker plot	
To construct box and whisker	www.mathsisfun.com/data/ste
plot when quartiles are given	<u>m-leaf-plots.html</u>
To read and interpret box and	www.bbc.com/bitesize/guides/z
whisker plot	<pre>qymng8/revision/5</pre>
·	www.bbc.com/bitesize/guides/z
	vybkqt/revision/7
Stem and Leaf Diagrams	
Construct and interpret stem	
·	
and leaf diagrams	





Mathematics (Extended)	Learning objective: • To analyse the given data to find the mean median, mode and range for discrete data • To analyse the given frequency table and calculate the mean and median from the given grouped frequency table. • To draw and interpret stem and leaf diagrams • To analyse and interpret box plot diagrams	 Research on the average population by age in UAE Research on the median earnings earned inorder the marketers know how well the median marketers works Research on a career in which a person collects and organizes data. Describe how data are collected and organized in that data. Research on the advantages of mean, median and mode. Determine the average expenditure on your cell phone and compare with that of your parents. As an archeological dig, you find several arrowheads. How would you use the stem-and-leaf plot to organize the lengths to calculate the mean and median length. 	https://www.youtube.com/watch?v=r2Eqrl-VEH8 https://www.youtube.com/watch?v=hMsg8TBMnzA https://www.youtube.com/watch?v=MUCvUgGfzdo https://www.youtube.com/watch?v=8ooKmIIb0Yo https://www.youtube.com/watch?v=fJZv9YeQ-qQ https://www.youtube.com/watch?v=b-Veq7E30OY https://www.youtube.com/watch?v=b-Veq7E30OY
		to calculate the mean and median length.	





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Mathematics	;
Statistic	

TOPIC: Collection of Data:

Learning Objective:

Form a hypothesis, identify problems that may arise with the statistical enquiry cycle (e.g. non-response of surveys, difficulty estimating the population or unexpected outcomes) and come up with strategies to help overcome these.

TOPIC: Processing, representing and analysing data:

Lesson Objective:

Construct, draw, use and understand Pictograms, Bar charts, Vertical line graphs, stem and leaf, venn diagram, Students can be given the opportunity to design questionnaires and conduct their survey at school during lesson time. These can be passed onto parents or teachers to critique and offer suggestions of improvement.

Investigate methods of collecting data in the real world, e.g. tax return, passport application, national census. Most data sources will have data that has already been cleaned (i.e. no formatting errors, missing entries, incorrect entries). Therefore, it is a good idea to give students an example of data with these problems. A good example is the original Mayfield data set which is available on the Mathematics Emporium at www.edexcelmaths.com.

https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/4https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/1

10132 ch00 prelims PB.indd (collins.co.uk)





	box plots and pie charts. Select the appropriate representation for the data. Construct, draw, use and understand Frequency polygons, Histograms with equal and unequal class intervals	Solve questions of common mistakes among students for example, not knowing the difference between histogram and bar chart, drawing of pie chart using the table, analyse and interpret data	https://revisionmaths.com/gcse- maths-revision/statistics- handling-data/cumulative- frequency-graphs
Physics	Turning effects of force To describe the moment of a force as a measure of its turning effect and give everyday examples. To describe, qualitatively, the balancing of a beam about a pivot.	Pivot Force here produced by force	www.skool.co.uk www.lslandphysics.com https://www.youtube.com/watc h?v=Bs9poMZp4tc http://www.bbc.co.uk/schools/g csebitesize/science/triple_aga/u





	moments to simple systems in equilibrium.	 Two forces are causing the sea-saw to tip. The girls weight causes it to tip to the left, while her father provides a force a tip to the right. Investigate on how he can increase his turning effect. Use the ideas of stability and centre of mass to explain the following: Double- decker buses have heavy weights attached to their undersides. The crane has a heavy concrete block attached to one end of its arm, and others placed around its base. Make a compilation of pictures of variety of turning effect of forces in everyday life using PADLET. 	moment/
Chemistry	Atoms, elements and compounds. Describe elements compounds, mixtures	of the atom	https://phet.colorado.edu/sims/ html/isotopes-and-atomic- mass/latest/isotopes-and- atomic-mass_en.html





	Discuss the limitations of each model using	
The Structure of Atom	ICT/textbooks.	
State the relative		
charge and mass of each	Construct 3D model of Atom.	
subatomic particle		http://www.chem4kids.com/file
Define proton number	Create a chart with the following headings: Element, Number of	s/atom structure.html
and nucleon number.	Protons, Number of Neutrons, Atomic Mass, Atomic number, Mass	
Draw atomic structure	number and collect the data about the first twenty elements,	https://www.youtube.com/watc
of atoms and ions		h?v=USV-S A NI
• Isotopes and	ACTIVITY 1:	
calculation of relative	Research about the types of reactions.	https://www.onlinemathlearnin
atomic mass	ACTIVITY 2:	g.com/chemical-reactions-
	Many chemical reactions release or absorbs energy. What are	equations.html#:~:text=Five%20
Chemical Formula and	these reactions called? Classify the reactions.	major%20types%20of%20chemi
Reactions	State the type, predict the products and balance the equation	cal,(also%20called%20double%2
• To classify the		<u>Odisplacement)</u> .
different types of		
chemical reactions		https://www.physicsandmathstu
		tor.com/chemistry-





	 Predict the types of reactions and identify the products Write and balance symbol equations 		revision/igcse-cie/chemical- reactions/ https://www.youtube.com/watc h?v=WWJQpuv9EIE
Biology	 Enzymes: To define the basic terms such as catalyst and enzymes. To describe the importance of enzymes in all living organisms in terms of reaction speed. To explain the specificity of enzymes 	 Research on the enzymes that are used as biofuels using biotechnology. Elaborate on the type and working of the enzyme Build a 3D working model of enzyme-inhibitor activity. Research on a particular enzyme and its activity at different pH and temperature. Collect evidences and present it as a poster. 	 http://www.activesciencegsk .com/miniweb/content/enzy mes/how_do.htm http://www.bbc.co.uk/schoo ls/gcsebitesize/science/add ocr_gateway/living_growing/ proteinsrev2.shtml https://biotechnologyforbiof uels.biomedcentral.com/arti cles/10.1186/1754-6834-2- 14



https://youtu.be/0nwl0xnG8

https://www.megazyme.com

industry/fermentation-and-

/select-an-

enzymes



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and

	reaction.		manufacture the antibiotic penicillin and enzymes for use in		<u>W4</u>
	 To investigate the 		biological washing powders	•	http://www.bbc.co.uk/schoo
	factors affecting	•	Encourage the students to discuss the role of the fungus		ls/gcsebitesize/science/add
	enzyme reaction.		Penicillium in the production of antibiotic penicillin& its uses		aqa/proteins/proteinsrev3.sh
	Role of enzymes in		in daily life.		<u>tml</u>
	Role of enzymes in fermentation and industries	•	Read about the production of enzymes using fermentation	•	http://babbledabbledo.com/
	Termemation and madernes		process ad create a news blog on the same.		25-steam-projects-for-kids/
				•	http://study.com/academy/l
					esson/alcohol-fermentation-
					definition-equation-
					process.html

enzyme • Outline the use of microorganisms and fermenters to





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			 http://www.omicsonline.org /enzyme-production-by- fermentation-technology- scholarly-open-access- journals.php https://www.tsijournals.com /articles/enzyme-synthesis- by-fermentation-methoda- review.pdf
Food and Nutrition	Composition and value of the main foods in the diet-Sources of protein (Pulses, legumes, dairy products, egg, meat, fish, poultry, nuts, oilseeds, alternative protein)	 When shopping for milk, what do you look for on the container? How do you store and care for milk products? Cook three different recipes using milk with different fat content. Represent your findings in a recipe booklet format with pictures of the cooked product. 	https://www.eatforhealth.gov.a u/food-essentials/five-food- groups http://vikaspedia.in/health/nutri tion/nutritive-value-of- foods/nutritive-value-of-cereals- and-millets





Economics	 To develop independent researching on countries have both public and private sectors allocating the resources. To developed analytical skills on whether or not consumers benefit more from a market economic system or a mixed economic system. 	 Revise the features, advantages and disadvantages of market economic system Prepare a presentation why government should intervene in allocating certain goods and why? 	https://www.investopedia.com/terms/m/mixed-economic-system.asphttps://www.britannica.com/topic/mixed-economyhttps://youtu.be/7Ybh8AeFO2o
Accounting	To explain the use of, and process,	 State two advantages of maintaining a petty cash book. Explain what the petty cashier should do if he/ she thinks that the imprest amounts his inadequate. 	Text book





	accounting data in the petty cash book. • To explain and apply the imprest system of petty cash.	Analyse the reasons why a business needs to prepare or have a petty cash book when they already have a cash book maintained?	Petty Cash Book - Meaning, Types, Examples, and FAQs (vedantu.com) https://www.bing.com/ck/a?!& &p=4dee36b8bef59650JmltdHM 9MTY2NTI3MzYwMCZpZ3VpZD0 zMTM4ZjM1OS01Mzg0LTZiMzkt MmY3MC1lMmVkNTJmYjZhZTU maW5zaWQ9NTIxMw&ptn=3&h sh=3&fclid=3138f359-5384- 6b39-2f70- e2ed52fb6ae5&psq=petty+cash+ book&u=a1aHR0cHM6Ly93d3cu d2FsbHN0cmVldG1vam8uY29tL3 BldHR5LWNhc2gtYm9vay8&ntb= 1
Business Studies	Private and Public Ltd.To understand what a limited company is	Task 1	www.bized.co.ukwww.cie.org.ukwww.s-cool.co.uk





а	and its benefits to a)	How does the existence of limited liability benefit an	 www.dineshbakshi.com
s	hareholders.	individual shareholder?	• <u>www.tutor2.net</u>
easier fo	ne reasons why it is b) or a public limited y to raise capital than e limited company.	Does limited liability make it easier or more difficult for companies to attract new shareholders? Explain your answer.	
α μπνατε	c)	Explain why a Sole trader might not want to convert the business into a partnership.	
	d)	Using the examples of a sole trader business and a public limited company, explain how the relationship between ownership and control differs in these two types of organisations.	
	Task 2		
	Resea	rch one public sector organisation in your country.	
	What	is the name of the organisation?	





		What goods or services does it offer to the people of your country? How are the activities of the organisation financed? Does it charge consumers for the goods or services it produces? Do you think the organisation you have researched should be controlled by the government? Justify your answer.	
Travel and Tourism	 To explain the ways destinations can be sustainable. To analyse the actions destinations, take to protect the natural and built environment. 	Suggest ways that destinations can use sustainable tourism factors to manage the destination sustainably. For example: guided tours for visitor behaviour management.	https://tourism4sdgs.org/initiatives/dubai-sustainable-tourism-initiative/#:~:text=Dubai%20Sustainable%20Tourism%20(DST)%20is,aspects%20of%20the%20tourism%20sector.
Sociology	Family	Changes in he structure of Family in MIS Discuss how family functions have changed over time.	https://www.youtube.com/watc h?v=PfEyUUkVcHs





		Evaluate the view that the extended family is the best for society.	https://www.google.com/search ?q=IGCSE+sociology+family+stru cture&rlz=1C1GCEU en- GBAE931AE931&sxsrf=ALiCzsbw P9FkO4aWvynFKbt1- 7bPn0vUZQ:1665680536833&so urce=lnms&tbm=vid&sa=X&ved= 2ahUKEwis39PF1936AhXYgPOHH fRnBBUQ AUoA3oECAMQBQ&bi w=1280&bih=609&dpr=1.5#fpst ate=ive&vld=cid:caa3a450,vid:E5 WFEw-7000,st:0
Psychology	Development	Create an alternative study of Piaget's three mountain task.	Edexcel textbook, useful websites: https://www.verywellmind.com/how-to-conduct-a-psychology-experiment-2795792





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Geography	Coasts and Weather	Students to Research on the impact of coasts due to variation in the weather.	https://www.up.edu/learningco mmons/files/guide-to-writing-a- psychology-research-paper.pdf http://www.polish.polar.pan.pl/ ppr28/PPR28-123.pdf
History	Collapse of international by 1939	Students will research about the causes for the collapse of International peace by 1939 and answer the questions below. https://www.youtube.com/watch?v=Q78COTwT7nE Which was more important in causing the Second World War: the flaws in the Treaty of Versailles or Hitler's foreign policy? Create a political cartoon/ comic strip explaining the contribution of Hitler to the collapse of international peace by 1939.	https://prezi.com/ozepvjbz9jzk/ why-did-international-peace- collapse-by-1939/ https://www.ducksters.com/hist ory/world_war_ii/
Environmental Management	ENERGY & THE ENVIRONMENT	Use the internet to investigate why fossil fuels are important. Draw labelled diagrams to highlight similarities and differences between the formations of coal and oil/natural gas.	https://revise.znotes.org/cie- igcse/environmentalmanagemen t-0680





		-Create a mind map of the renewable and non-renewable energy resources and how each of the energy resources is used to generate electricity	https://www.ucsusa.org/clean- energy/renewable- energy/environmental-impacts
ICT	Topic EXCEL functions Learning Objective: To create spreadsheets using MS EXCEL, and explore entering formulas, sort data and format cells To present the data in formatted form, as a properly laid out spreadsheet	Microsoft Excel is a spreadsheet program used to store and retrieve numerical data in a grid format of columns and rows. Excel is ideal for entering, calculating and analysing company data such as sales figures, sales taxes or commissions. Help the child to develop a data model, of the finance of your work place or the finances flow at home Encourage your child to research on the following: • Difference between the different types of LOOKUP functions • How to use data validation in a spreadsheet • Present data • Enhance data	https://www.youtube.com/watc





		 Format cells Adjust rows and columns Conditional formatting Adjust page orientation 	
Computer Science	Topic: Data Representation – Sound and Images Learning Objectives: To discover how sound and images are stored. To explain how sound and images are represented by binary numbers.	All data inside a computer is transmitted as a series of electrical signals that are either on or off. Therefore, in order for a computer to be able to process any kind of data, including text, images and sound, they must be converted into binary form. Encourage your child to research on the following: • How is sound represented in a computer? • How do pixels make up an image? • How are pixel images stored?	https://www.bbc.co.uk/bitesize/guides/zpfdwmn/revision/1 https://teachwithict.weebly.com/binary-representation-of-sound.html https://teachwithict.weebly.com/binary-representation-of-images.html#:~:text=In%20order%20for%20the%20computer,give%20us%208%20colours%20etc.





Physical Education	•To describe the circulatory system and understand how it works.	 Draw a diagram showing the heart and the two circuits that the blood travels round. Find about red & white blood cells and platelets (use your textbooks, other books in the library, CD ROMS or internet). In your own words, describe the function of each of the 3 blood cells. 	www.teachpe.com www.britishschoolofboston.org www.cie.org.uk www.innerbody.com www.physicaleducation.co.uk
Art	Confidence, enthusiasm and a sense of achievement in the practice of art and design.	Engagement and experimentation with a range of media, materials and techniques and exploration of manipulative skills necessary to form, compose and communicate.	www.studentsartguide.com
French	 Manger équilibré Aïe, Aïe, J'ai mal Chez le docteur Comment rester en forme 	Writing: Students are requested to write a paragraph when they describe how to stay healthy, describe where it hurts using grammar tools (description, negation, opinion) Speaking:	https://www.youtube.com/wat ch?v=V57Eztv1k08 https://www.youtube.com/wat ch?v=I1 RSyzPHPg&t=155s https://www.youtube.com/wat ch?v=o-tCL3Uwqrw





	 Les adjectifs irréguliers Les expressions avec avoir L'interrogation La négation 	Students are requested to prepare a dialogue (podcast) when they describe how to stay healthy, describe where it hurts using grammar tools (description, negation, opinion) Reading: Reading comprehension on the same topic (Textbook/IGCSE). Listening: Listening comprehension on the same topic (Textbook/IGCSE).	https://www.sanjuan.edu/cms/lib8/CA01902727/Centricity/Domain/4109/Les%20adjectifs%20irreguliers.pdf https://www.scribbr.fr/elements-linguistiques/interrogation/https://lecoursdefrancais.weebly.com/la-neacutegation.htmlhttps://papers.gceguide.com/Cambridge%20IGCSE/French%20-%20Foreign%20Language%20(0520)/#google_vignette
Arabic (Arabs)	حسن الخلق إذا المرء لم يدنس صيغ المبالغة :Learning objectives - أن يحلل النص الشعري بلاغيًا وأدبيًا	يفسر ألفاظ الحديث الشريف يشرح الفكرة الرئيسة والأفكار الفرعية في الحديث يوضح تأثير حسن الخلق في حياة الناس يدلل على حسن الخلق من الشواهد الشعرية يحلل عاطفة الشاعر في الأبيات ويدلل عليها	https://www.youtube.com/watc h?v=JWgEIWv9IQk https://www.youtube.com/watc h?v=t-g TsPStIQ





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	- أن يوضح الفكرة الرئيسة والأفكار	يتتبع الأفكار الفرعية في النص مع تحديد الأبيات	https://www.youtube.com/watc
	الفرعية.	يوضح أثر البيئة في أسلوب الشاعر	h?v=weQg1on5VBo
	- أن يستنتج الدلالات التعبيرية في الأبيات	يقارن النص بنص آخر من العصر الجاهلي	https://www.youtube.com/watc h?v=9EYkUJQYoOI&t=71s
	- أن يبين دور الصور الفنية في إبراز جمال المعنى		
	- يحدد الصيغ القياسية لأوزان صيغ		
	المبالغة		
	- يمثل لأوزان صيغ المبالغة القياسية		
	والسماعية		
Islamic	مراحل جمع القرآن - الوقف :TOPIC	يستنتج أهمية جمع القرآن الكريم	https://www.youtube.com/watc
Education	نماء وعطاء		h?v=WirTeKZPY5I
(Arabs)		يستنتج أهمية الوقف في خدمة المجتمع	





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	يوضح مراحل جمع القرآن يميز بين جهود أبي بكر وجهو عثمان في جمع القرآن يبين فضل الوقف يميز بين أنواع الوقف		https://www.youtube.com/watc h?v=l5x8rftd1YA
Arabic (Non- Arabs)	TOPIC: Learning objectives: أن يقارن التلميذ بين إيجابيات وسلبيات الإعلام أن يوضح التلميذ أهمية الإعلام أن يبدي التلاميذ رأيه في الإعلام أن يحلل التلميذ النص تحليلاً أدبياً	Students can design and create videos about the media. Students can write paragraphs about the media. Students can make magazines about different types of media. students can create an act a role play about media	https://www.youtube.com/watc h?v=pk0IW6Drnhk https://www.youtube.com/watc h?v=zIUuuHeMvwY https://www.youtube.com/watc h?v=ZEKZbg70SIQ ps://www.youtube.com/watch?v= eYpzJT80Uao





Islamic	TOPIC: 1. People of the		
Education	Cave	1. Write an essay of the story of people of the cave and infer	https://quranschooling.com/stag
(Non Arabs)	2. Stages of collection the	the lessons learned from the story and how to apply it in real life	es-of-compilation-of-quran/
	Quran		
	Learning objectives:	2. Search at least 2 ayat talks about how Allah gives life and	https://www.youtube.com/watc
	 To recite the ayat and interpret their meanings in their own 	death . 3. Write an essay or a journal report about Miracles in Al	h?v=JCEuj4hVOJw
	words, • To summarise the	Quran Al Kareem.	
	story of the people of the cave.	4. Write an essay to a friend convincing him why Muslims believe that Al Quran is not changed unlike previous book	
	 To analyze some situations in the story 		
	 To explain the stages of collecting AL Quran. 		
	 To compare the efforts of Abu Bakr As Siddig in serving Al 		





Quran to those of Uthman R.A.	





Moral	TOPIC: The Development of	Explain the following statements:	https://www.youtube.com/watc
Education	Entrepreneurship Skills		<u>h?v=hzoGnCdQadw</u>
	Learning objectives:	 Entrepreneurs must be motivators. 	
	To develop entrepreneurial		
	skills by producing a plan for a	 Entrepreneurs must be risk takers. 	
	'business' and making financial decisions based on how the business copes with economic pressures	Entrepreneurs must be dreamer	