



Summer Aim High Study Progress Programme
Year 11
March 2023

Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	To revise techniques and formats of writing tasks in lieu of the coming exams.	<ul style="list-style-type: none">• 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 movie.• Write a journal entry from John Nash's viewpoint.	http://viooz.co/movies/1473-a-beautiful-mind-2001.html



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English 2nd Language	<ul style="list-style-type: none">• To be able to develop academic vocabulary.• To develop effective article writing skills.• To develop complex sentence structure.• To structure a paragraph focusing on effective P.E.E.	<ul style="list-style-type: none">• Encourage the student to have his or her own blog. There are several free blog sites that make it easy to get started. Writing for an audience gives kids a meaningful purpose — a reason to use their developing reading and writing skills.• Build a climate of words at home. Share experiences and rich talk about those experiences. The basis of good writing is good talk.• Indulge in discussion with the student on various topics for example<ul style="list-style-type: none">➤ Is developing nuclear energy for commercial use justified?➤ Is censoring the media effective?➤ Should all students have an after - school job?	<p>http://learnrealenglish.com/7-steps-to-learning-english?gclid=CP3EotTplsCFYIF3godcWoA8g http://esl.about.com/od/intermediatelisteni1/a/How-To-Practice-English-Listening-Comprehension-Skills.htm http://esl.about.com/od/speakingenglish/a/sta_conv.htm</p>
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		<p>➤ Homework should be banned. Ask the students to research more on the topics and draw mind maps based on his/her findings. Give your feedback and then prompt him to write an article giving a suitable title.</p>	
English Literature	To analyse the impact of historical background on a play.	<p><u>Research on the following:</u></p> <ul style="list-style-type: none">Analyse the historical background of the play you have selected for paper 2. <p>How do the origin, culture and traditional values impact the following:</p> <ul style="list-style-type: none">development of the playdevelopment of charactersstage directionsimagery and symbolism	<p>https://www.languagehumanities.org/wh-at-is-the-connection-between-literature-and-history.htm</p>



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Mathematics Additional	<u>DIFFERENTIATION</u> Calculate the gradient at a point on a curve, given its equation Find the equations of the tangent and normal to a curve at a point. Locate maximum and minimum points on the graph Interpret a derivative as a rate of change of one variable with respect to another. Apply differentiation to rates of change Use second derivatives to distinguish minimum and maximum points	Make a list of derivatives of simple functions Research on the applications of differentiation. How do you find maximum and minimum points using differentiation? Make notes to summarize learning that includes solved examples	http://www.classzone.com/eservices/home/pdf/student/LA210AAD.pdf http://www.mathplanet.com/education/algebra-1/radical-expressions/the-distance-and-midpoint-formulas https://www.sophia.org/concepts/midpoint-formula-in-the-real-world http://www.warrick.k12.in.us/schools/castle-south/docs/Math/Algebra/Alg%201%2012.6%20pg%20748.pdf https://www.chegg.com/tutors/what-are-Distance-and-Midpoint-Formulas/ https://www.bbc.com/bitesize/guides/zyj77ty/revision/1 https://revisionmaths.com/advanced-level-maths-revision/pure-maths/calculus/differentiation
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Mathematics Extended	<p>VECTORS Learning objective:</p> <ul style="list-style-type: none">To add vectors and multiply a vector by a scalar.To calculate the position vectorsTo express given vectors in terms of coplanar vectors. <p>GRAPHS Learning objective:</p> <ul style="list-style-type: none">To solve an equation from the graph by drawing the required line.	<ul style="list-style-type: none">Create a lapbook as a learning tool on VectorsResearch on how vectors are applied to real lifeResearch on the motion of a projectile using vectorsResearch on the application of quadratic graphs in calculating areas, determining a product's profit or formulating the speed of an object.	<ul style="list-style-type: none">Create a lapbook as a learning tool on VectorsResearch on how vectors are applied to real lifeResearch on the motion of a projectile using vectorsResearch on the application of quadratic graphs in calculating areas, determining a product's profit or formulating the speed of an object.



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	<ul style="list-style-type: none">• To draw quadratic, cubic and exponential graphs for the given equations• To draw the tangent to the curve and estimate the gradient.		
Statistics	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.	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.	



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	<p>Probability: Probability from two-way tables, sample space diagrams, tree diagrams and Venn diagrams</p>	<p>Show learners the following video clips as a whole class, or they could watch them independently. Produce a set of questions covering key points from the videos, for learners to answer either while watching or afterwards. (F)</p>	
<p>Physics</p>	<p>Revision for Year 11 IGCSE Examination</p>	<p>Revise the following topics in preparation for Year 11 IGCSE Exams:</p> <ol style="list-style-type: none">1. Measurement2. Force and Moment of Force3. Work, energy and power4. Sound	<p>https://physics.info/motion https://www.bbc.com/education/guides/zyy-dmp3/revision/1 https://www.youtube.com/watch?v=rQBH_IaxlMO https://www.britannica.com/science/energy</p>

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		<ol style="list-style-type: none"> 5. Light 6. Waves 7. Atom and radioactivity 8. Static and Current Electricity 9. Electromagnetism 10. Thermal Physics 11. Space Physics <p>Access past papers and mark scheme on the links provided and answer relevant questions.</p>	<p> https://www.conserve-energy-future.com/different-energy-sources.php www.edinformatics.com/math_science/work_energy_power.html www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_pre.../lightandsoundrev1.shtml http://www.physicsclassroom.com/class/waves https://atomic.lindahall.org/what-is-an-atom.html http://hyperphysics.phy-astr.gsu.edu/hbase/Nuclear/radact.html </p> <p>Stellar evolution https://www.youtube.com/watch?v=cRYu8pMg9zQ </p> <p>Red shift and Evidence for the expansion of universe-</p>
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			https://www.youtube.com/watch?v=-mQ41yA6LaA CMBR- https://www.youtube.com/watch?v=AOGnuZdCVk8
Chemistry	Topics: Revision on <ul style="list-style-type: none">• Chemical bonding• Acids and bases.• Organic chemistry: Alcohols and carboxylic acids• Polymers: Condensation and addition polymers• Electrochemistry	<ul style="list-style-type: none">• Create a revision notes using the key terms for the following topics.• To distinguish between covalent and ionic bonding.• Compare simple covalent compounds with giant covalent compounds.• To elaborate the different methods of salt preparation.• To compare acidic, basic, neutral and amphoteric oxides.	https://www.youtube.com/watch?v=HHT0S2Tpi8Q https://www.youtube.com/watch?v=9zdKq2-6Qm8 https://www.youtube.com/watch?v=ql0Sm31MUdA https://www.youtube.com/watch?v=lpM_VCMPFug https://www.youtube.com/watch?v=3YeXGpDdgZw https://www.youtube.com/watch?v=vWBF9s56H7E

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		<ul style="list-style-type: none"> • 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 compare and contrast, draw condensation and addition polymerisation. • To predict the product for molten, aqueous, dilute and concentrated solutions. 	https://www.youtube.com/watch?v=-d14DmSBuAQ https://www.youtube.com/watch?v=VKmdYYPexbs&t=25s https://www.youtube.com/watch?v=7ullq_Ofzgw https://www.youtube.com/watch?v=87K8QsMl8nc
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Biology	<p><u>Control & coordination</u></p> <ul style="list-style-type: none"> • Describe the structure and function of the eye including accommodation and pupil reflex • Correlate the significance of synapse and types of neurotransmitters. <p><u>Biotechnology</u></p> <ul style="list-style-type: none"> • Outline the procedure involved in creating genetically modified organism using restriction enzymes. <p><u>Excretion and Homeostasis</u></p> <ul style="list-style-type: none"> • Outline the structure and functioning of a kidney tubule including the role of the glomerulus in the filtration from the blood of water, glucose, urea and salts. 	<ul style="list-style-type: none"> • Create a simulation to explain synapse and the transmission of electrical impulse across. • Schematically illustrate the importance of restriction Enzymes and ligase in genetic engineering • Elaborate on the functioning of dialysis. (Include the important processes involved and the diagrams). • Discuss the advantages & disadvantages of dialysis and kidney transplant. 	<p>https://www.youtube.com/watch?v=Uk0U16uZpPA</p> <p>https://www.youtube.com/watch?v=yxjJQ3VogMQ</p> <p>https://www.youtube.com/watch?v=EQu4MSIPVwY</p> <p>Revision – kidney failure: www.s-cool.co.uk/gcse/biology/homeostasis/revise-it/dealing-with-kidney-failure</p>
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	<ul style="list-style-type: none">• Explain dialysis in terms of salt balance, the maintenance of glucose concentration and the removal of urea.		
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Food and Nutrition	Revision of all topics in the syllabus.	<ul style="list-style-type: none">• An understanding of the terms used in nutrition and nutrition-related problem• Nutritive value of foods• Digestion and absorption• Meal planning and dietary guidelines• Composition and value of the main foods in the diet• Cooking of food• Convenience foods• Basic proportions and methods of making	<p>http://www.eatingwell.com/category/4287/meal-planning-101/</p> <p>http://youtu.be/S12zZhdOckc</p> <p>bit.ly/use-by-or-best-before</p> <p>http://practicalaction.org/technical-briefs-schools-food</p> <p>practicalaction.org/zeer-pot-fridge</p> <p>http://youtu.be/ZNKifJHqScc</p> <p>practicalaction.org/solar-drying-2</p> <p>https://greatist.com/eat/ultimate-list-kitchen-tools-healthy-cooking</p>
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		<ul style="list-style-type: none">• Raising agents• Food spoilage and hygiene in the handling and storage of food• Food preservation• Kitchen planning• Kitchen equipment• Kitchen safety, simple first aid	
Economics	Structured revision on IGCSE Economics topics	<ul style="list-style-type: none">• Discuss the tools and evaluate the use of supply side policies, Fiscal policies and Monetary policies.• Discuss the causes and types of Structured unemployment.	CAIE past papers Online resources: https://www.tutor2u.net/economics https://s-cool.co.uk/ https://www.sparknotes.com/economics/



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		<ul style="list-style-type: none">• Discuss the policies to reduce unemployment• Discuss the causes of Inflation.• Discuss the policies to reduce high inflation• Discuss the causes and consequences of economic growth• Discuss the causes and consequences of current account deficit.• Policies to correct current account deficit and exchange rate fluctuations.• Evaluate the use of fixed and floating exchange rate.• Discuss the factors influencing PED and PES.• Analyse the graphs on economic growth, inflation, unemployment, PED, PES, taxes, subsidies.	<p>http://pinkmonkey.com/studyguides/subjects/economics/contents.asp</p>
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Accounting	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> To identify the main elements of a statement of financial position. 	<ul style="list-style-type: none"> Classify Non-current assets, current assets, non-current liabilities, and current liabilities of the business. Analyze why it is important to stakeholders of a business to provide 	https://www.bing.com/search?q=dynamic+paper&vid=8870c3d17681420197bec1389df151ef&aqs=edge..69i57j0l7j69i65j69i11004.3894j0j1&pglt=41&FORM=ANNAB1&PC=U531



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	<ul style="list-style-type: none"> To analyze how to interpret the simple statement of financial position and make deductions from them. 	a statement of financial position in the published account.	Complete CIE (0452) Business Studies IGCSE Past Paper Categorized Questions - GCSE Business
Travel and Tourism	Revisit below concepts: <ul style="list-style-type: none"> Different Time Zones and Climates Marketing and promotion 	<ol style="list-style-type: none"> Demonstrate knowledge of the main global features Demonstrate awareness of different time zones and climate Role and function of marketing and promotion Market segmentation and targeting Marketing Mix The provision of tourist products and services 	Tourist Information centre Local travel Magazines Textbook igcse past question papers



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Sociology	Revision	Revise the topics in preparation for Year 11 IGCSE Exams:	igcse past question papers: https://papers.xtremepape.rs/CAIE/IGCSE papacambridge.com
Psychology	Revision	Revise the topics in preparation for Year 11 IGCSE Exams:	igcse past question papers: https://papers.xtremepape.rs/CAIE/IGCSE papacambridge.com
Geography	Revision	Revise the topics in preparation for Year 11 IGCSE Exams:	igcse past question papers: https://papers.xtremepape.rs/CAIE/IGCSE papacambridge.com
History	Revision	Revise the topics in preparation for Year 11 IGCSE Exams:	igcse past question papers: https://papers.xtremepape.rs/CAIE/IGCSE papacambridge.com



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Global Perspectives	Revision	Revise the topics in preparation for Year 11 IGCSE Exams:	igcse past question papers: https://papers.xtremepape.rs/CAIE/IGCSE papacambridge.com
Environmental Management	Revision	Revise the topics in preparation for Year 11 IGCSE Exams:	igcse past question papers: https://papers.xtremepape.rs/CAIE/IGCSE papacambridge.com
ICT	Topic: <ul style="list-style-type: none">• System Life cycle• Spreadsheets• Data manipulation	Students to discuss different stages of system life cycle. Spreadsheets: Students to use Vlookup and nested if Statements. Data manipulation : To create queries and reports in Access	www.igcseict.info https://www.yahmad.co.uk/Pages/IGCSE%20Theory.html



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		Web Authoring: Students to use hyperlinks, Book marks and Html source code to create a Web page.	
Computer Science	Topic: Computer Architecture Learning Objective: <ul style="list-style-type: none">• Students will be able to explain the various types of bus• Students will be able to define the Von Neumann architecture of computer	List out the uses of given components in the table: <ul style="list-style-type: none">➤ 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.	www.softpedia.com/get/Others/Home-Education/Logic-Gate-Simulator.html



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		<p>Also discuss and help the child to research on the steps of process to be carried out to perform a task</p> <p>Encourage the child to research and read online to get information but write in their own words after understanding.</p>	
Physical Education	<p>Final Practical's</p> <p>Revision of the topics.</p> <p>Practice of past papers.</p>	<p>All chosen 4 sports and games.</p> <p>Whole syllabus.</p>	<p>www.bbc.co.uk</p> <p>www.teachpe.com</p>
Art	<p>Presenting the component one (coursework) for final feedback.</p>	<p>To organise and present all works in line the assessment objectives.</p>	<p>https://www.bbc.co.uk/bitesize/guides/zgtn_gdm/revision/1</p>
French	<p>La comparaison</p> <p>La métaphore</p> <p>Si "L'hypothèse"</p> <p>Reading</p>	<ul style="list-style-type: none"> • 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 	<p>https://papers.gceguide.com/Cambridge%20IGCSE/French%20-%20Foreign%20Language%20(0520)/2021/</p>

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	Listening Writing	<ul style="list-style-type: none"> Writing: to improve the writing skills by using variety of figure style, grammar concept, sentence structure. 	https://www.alloprof.qc.ca/fr/eleves/bv/fr/ancais/la-comparaison-f1369 https://papers.gceguide.com/Cambridge%20IGCSE/French%20-%20Foreign%20Language%20(0520)/2021/ https://www.alloprof.qc.ca/fr/eleves/bv/fr/ancais/la-metaphore-f1370
Arabic (Arabs)	<p>اسم الآلة</p> <p>Learning objectives: أن يميز اسم الآلة أن يوظف اسم الآلة</p> <p>TOPIC كتاب رؤيتي</p> <p>Learning objectives</p>	<p>يحدد اسم الآلة في الجمل</p> <p>يكتب فقرة من إنشائه مستخدماً اسم الآلة</p>	

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	<p>أن يحدد الطالب الفكرة الرئيسة والأفكار الفرعية مع ذكر الدليل أن يحلل الطالب النص تحليلاً أدبياً أن يبدي الطالب رأيه في القضية التي يعرضها الكاتب</p> <p style="text-align: center;">TOPIC التشبيه التمثيلي</p> <p style="text-align: center;">Learning objectives أن يميز الطالب التشبيه التمثيلي أن يوظف الطالب التشبيه التمثيلي</p>	<p>يستنتج الفكرة الرئيسة والأفكار الفرعية مع ذكر الدليل يوضح مواطن الجمال والأساليب البلاغية يفسر الطالب معاني المفردات الجديدة وفق سياقها في النص يبدي رأيه في القضية التي يعرضها الكاتب</p> <p style="text-align: center;">ستخرج التشبيه التمثيلي في الجمل يكتب فقرة من إنشائه مستخدماً التشبيه التمثيلي</p>	<p>https://www.youtube.com/watch?v=POTqyBpD-AQ</p> <p>https://www.youtube.com/watch?v=SxfMYeii7lg</p> <p>https://www.youtube.com/watch?v=Oxy4vJwcKes</p>
<p>Islamic Education (Arabs)</p>	<p>المتواتر والآحاد من الحديث - الشورى في الإسلام</p> <p>Learning objectives: يميز بين الحديث المتواتر والآحاد. 12. يستنبط شروط الحديث المتواتر. 13.</p>	<p>16. يميز بين أنواع الحديث الآحاد. 17. يبين أهمية تصنيف الحديث بناء على السند. 18. يوضح مجالات الشورى. 19. يُعين صفات المستشار. 20. يدلل من القرآن والسنة والسيرة على أهمية الشورى.</p>	<p>https://www.youtube.com/watch?v=GeBHA BiZ3mA</p>



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	14. يوضح مفهوم الشورى. 15. يستنتج فوائد الشورى.		https://www.youtube.com/watch?v=IHbcRJJj0z4&t=16s
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<p>Islamic Education (Non Arabs)</p>	<p>TOPIC: 1. <u>Scientific Miracles of the Holy Quran</u> 2. <u>Methodology of Islam in Family Building</u> Learning objectives: To conclude the importance of scientific miracles in Qur'an as a proof of the authentication of Islam. To Infer the family building in Islam. To Apply the aspects of care for the family in Islam</p>	<p>Write an essay or a journal report about Miracles in Al Quran Al Kareem</p> <p>Design an awareness bulletin on the importance of family ties in Islam</p>	<p>https://www.youtube.com/watch?v=WHz4eNssQYw</p> <p>https://www.youtube.com/watch?v=aZw5-p19Ylw</p>
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Moral Education	Being an Active Citizen 1. Define 'volunteering'. 2. Identify and explain at least four attributes or qualities of volunteers.	Write a position paper of about 250 words on volunteering.	https://www.youtube.com/watch?v=c4LCe9uiGj0
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