



**Summer Aim High Study Progress Programme
Year 11
March 2024**

Area for learning	Focus	Activities	Useful Websites/Apps
English 1st 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. • Select any one scene and write a brief summary on it of 120 words. 	Website links selected by students.
English 2nd Language	<ul style="list-style-type: none"> • To be able to develop academic vocabulary. 	<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 	http://www.quickanddirtytips.com/business-career/public-speaking/how-to-improve-listening-skills



Summer Aim High Study Progress Programme Year 11 March 2024

	<ul style="list-style-type: none">• To develop effective article writing skills.• To develop complex sentence structure.• To structure a paragraph focusing on effective P.E.E.	<p>meaningful purpose — a reason to use their developing reading and writing skills.</p> <ul style="list-style-type: none">• 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 afterschool job?➢ Homework should be banned. <p>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>	<p>http://englishteststore.net/index.php?option=com_content&view=article&id=11388&Itemid=389</p> <p>http://learnrealenglish.com/7-steps-to-learning-english?gclid=CP3EotTplbsCFYIF3godcWoA8g</p> <p>http://esl.about.com/od/intermediatelistenin1/a/How-To-Practice-English-Listening-Comprehension-Skills.htm</p> <p>http://esl.about.com/od/speakingenglish/a/sta_conv.htm</p> <p>http://esl.about.com/od/englishlistening.com</p>
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Summer Aim High Study Progress Programme Year 11 March 2024

English Literature	To analyse the impact of historical background on a play.	<p>Research on the following:</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 play • development of characters • stage directions • imagery and symbolism 	https://www.languageliteratures.org/what-is-the-connection-between-literature-and-history.htm
Mathematics Additional	<ul style="list-style-type: none"> • Exact evaluation of expressions • Solving trigonometric equations by selecting an identity or identities appropriate to the context, showing familiarity in particular with the use of $\sec^2 t = 1 + \tan^2 t$, $\operatorname{cosec}^2 t = 1 + \cot^2 t$ • solve simple trigonometric equations involving the six trigonometric functions and the 	<p>Use the links given to revise the topics</p>	https://igcsemaths.in/2021/02/09/igcse-additional-mathematics-0606-trigonometry/ https://www.tutopiya.com/learning-portal/dashboard/my-quizzes/resources/subtopic/cambridge_igcse_additional_mathematics_trigonometry_63eb28d2574310ea17894e37



Summer Aim High Study Progress Programme Year 11 March 2024

	<p>above relationships (not including general solution of trigonometric equations)</p> <ul style="list-style-type: none">• prove simple trigonometric identities• integrate sums of terms in powers of x including $1/x$ and $1/ax+b$• integrate functions of the form $(ax + b)^n$ for any rational n, $\sin (ax + b)$, $\cos (ax + b)$, $e^{ax + b}$• Evaluate definite integrals and apply integration to the evaluation of plane areas• apply differentiation and integration to kinematics problems that involve displacement, velocity and acceleration of a particle moving in a straight line with variable or constant acceleration, and the use of $x-t$ and $v-t$ graphs		<p>https://mystudycompass.com/add-maths-topical-past-paper-topic-10-trigonometry-book-1/</p> <p>https://www.youtube.com/watch?v=9jYxXeEWOYU</p> <p>https://www.onlinemathlearning.com/igcse-permutations-combinations.html</p> <p>https://mystudycompass.com/add-maths-topical-past-paper-topic-14-differentiation-and-integration-book-1/</p> <p>https://igcseexamguru.com/pastpapers/Topical%20Past%20Papers/AddMath/IGCSE%20Topical%20Past%20Papers%20Addmath%20P1.pdf</p> <p>https://igcseexamguru.com/pastpapers/Topical%20Past%20Papers/AddMath/IGCSE%20Topical%20Past%20Papers%20Addmath%20P2.pdf</p>
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**Summer Aim High Study Progress Programme
Year 11
March 2024**

			<u>0Topical%20Past%20Papers%20Addmath%20P2.pdf</u> https://www.dropbox.com/s/9ifebf2b52mldq/15a%20Differentiation%20and%20Integration.pdf?dl=0
Mathematics Extended	<p>Practice worksheets with past paper questions for the following topics:</p> <ul style="list-style-type: none">• Function graphs• Vectors• Trigonometry <p>Symmetry</p>	<p>Use the provided links to access and revise the topics.</p>	<u>Function graphs.zip - Google Drive</u> <u>Vectors_13feb.zip - Google Drive</u> <u>Circle Theorems_Feb12.zip - Google Drive</u> <u>4.Bearing Concept with 1 Challenged Qs.</u> <u>5. Trigonometry and Bearing</u> <u>6. Past paper Qs. soh cah toa and sine rule</u> <u>7. Trigonometry (sine and cosine rule)</u> <u>SYMMETRY</u> <u>1. Line of Symmetry and</u>



Summer Aim High Study Progress Programme Year 11 March 2024

			<u>Rotational symmetry - N19/11 and J18/11</u>
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. Probability: Probability from two-way tables, sample space diagrams, tree diagrams and Venn diagrams	<p>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.</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.</p> <p>(F)</p> <p>Extension activity: An interesting problem involving independent events and real data is at:</p> <p>http://s3.amazonaws.com/illustrativemathematics/illustration_pdfs/000/000/950/original/illustrative_mathematics_950.pdf?139075108</p>	https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/4 https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/1



Summer Aim High Study Progress Programme Year 11 March 2024

Physics	Revision for Yr. 11 IGCSE Examination	Revise the following topics in preparation for Year 11 IGCSE Exams: <ol style="list-style-type: none">1. Measurement2. Force and Moment of Force3. Work, energy and power4. Sound5. Light6. Waves & communication7. Atom and radioactivity8. Static and Current Electricity9. Electromagnetism10. Thermal Physics11. Space physics Access past papers and mark scheme on the links provided and answer relevant questions.	https://physics.info/motion https://www.bbc.com/education/guides/zyydmp3/revision/1 https://www.britannica.com/science/energy https://www.conserve-energy-future.com/different-energy-sources.php www.edinformatics.com/math_science/work_energy_power.html www.bbc.co.uk/schools/gcse/bitesize/science/add_ocr_prelightandsoundrev1.shtml http://www.physicsclassroom.com/class/waves https://atomic.lindahall.org/what-is-an-atom.html
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Summer Aim High Study Progress Programme
Year 11
March 2024

			http://hyperphysics.phy-astr.gsu.edu/hbase/Nuclear/radact.html
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. • 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. 	https://www.savemyexams.com/igcse https://znotes.org/caie/igcse/

**Summer Aim High Study Progress Programme
Year 11
March 2024**

		To predict the product for molten, aqueous, dilute and concentrated solutions.	
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 ad ligase in genetic engineering Elaborate on the functioning of dialysis. (Include the important processes involved and the diagrams). <p>Discuss the advantages & disadvantages of dialysis and kidney transplant.</p>	<p>https://www.savemyexams.com/igcse</p> <p>https://znotes.org/caie/igcse/</p> <p>Revision – kidney failure: www.s-cool.co.uk/gcse/biology/homeostasis/revising-it/dealing-with-kidney-failure</p>



Summer Aim High Study Progress Programme Year 11 March 2024

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 problems<ul style="list-style-type: none">• 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• Raising agents• Food spoilage and hygiene in the handling and storage of food<ul style="list-style-type: none">• Food preservation• Kitchen planning• Kitchen equipment• Kitchen safety, simple first aid	http://www.eatingwell.com/category/4287/meal-planning-101/ bit.ly/use-by-or-best-before http://practicalaction.org/technical-briefs-schools-food-practicalaction.org/zeer-pot-fridge https://greatist.com/eat/ultimate-list-kitchen-tools-healthy-cooking
Economics	To consolidate the topics through topic-based revision and solving past papers.	Topic-based revision from the below papers 0455/23/M/J/19 0455/23/M/J/21 0455/23/M/J/22 0455/23/O/N/17	https://www.tutor2u.net/economics https://www.twinseducation.com/resources/cambridge-igcse-exam-papers/igcse-



Summer Aim High Study Progress Programme
Year 11
March 2024

		economics-past-year-papers-0455/ https://s-cool.co.uk/ https://www.sparknotes.com/economics/ http://pinkmonkey.com/studyguides/subjects/eco/contents.asp
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Summer Aim High Study Progress Programme
Year 11
March 2024

Accounting	<ul style="list-style-type: none"> To revisit the capital structure of a limited company comprising preference share capital, ordinary share To prepare relevant financial statement pertaining to different business. 	Solve past paper questions from the series May/ Jun; Oct/ Nov 2020 to 2023 Paper 12 and Paper 22	www.dineshbakshi.com www.cie.org.uk www.myaccountinglab.com
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Summer Aim High Study Progress Programme Year 11 March 2024

Business Studies	Revisit and Practice Past question paper on topic Financial information and decisions for Paper 22	Solve below 3 Questions Question Year Series Paper number 1b – 2017-Feb/ March 22 3b- 2017 March 22 4b 2018 March 22	https://learning.cambridgeinternational.org/classroom/pluginfile.php/163401/mod_resource/content/10/0450_5_P2_TQs_v1.pdf https://learning.cambridgeinternational.org/classroom/pluginfile.php/163088/mod_resource/content/9/0450_5_P1_TQs_v1.pdf
Travel and Tourism	Marketing Mix <ul style="list-style-type: none">• To Revise why different pricing strategies are used by travel and tourism organizations in different situations.• To discuss the importance of promotion methods to encourage more tourists.	<ul style="list-style-type: none">• Explain three reasons why travel and tourism organizations might use market penetration as a pricing policy.• Discuss how ski resorts can use sales promotions to encourage more tourists.• Explain two benefits to travel and tourism organizations of developing a product portfolio.	https://igcseaid.com/notes/business-studies-0450/3-3-marketing-mix/



Summer Aim High Study Progress Programme
Year 11
March 2024

		Discuss the importance of using SWOT analysis as a marketing tool.	
Sociology	Past Paper Practice	Worksheets uploaded in phoenix resource folder to be solved for practice.	WWW.Papacambridge.com
Psychology	Exam Practice Paper 1 and 2	Worksheets uploaded in phoenix resource folder to be solved for practice.	https://qualifications.pearson.com/en/qualifications/edexcel-gcses/psychology-2017.coursematerials.html#filterQuery=category:Pearson-UK:Category%2FSpecification-and-sample-assessments
Geography	IGCSE REVISION	Download IGCSE papers and practice Paper 4 skills- 2019-2021 papers.	https://pastpapers.co/cie/?dir=IGCSE https://www.savemyexams.com/igcse/ https://znotes.org/caie/igcse/



Summer Aim High Study Progress Programme
Year 11
March 2024

History	Past Paper practice	Worksheets uploaded to be solved for practice.	https://pastpapers.papacambidge.com/papers/caie/igcse-history-0470
Environmental Management	Past paper practice	Practice IGCSE questions -paper 2 Investigation skills. 2019-2021 papers.	https://pastpapers.co/cie/?dir=IGCSE https://www.savemyexams.com/igcse https://znotes.org/caie/igcse/
ICT	Topic: <ul style="list-style-type: none">• System Life cycle• Spreadsheets• Data manipulation	<ul style="list-style-type: none">• 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	IGCSE ICT - 8 Systems Analysis & Design IGCSE ICT IGCSE ICT - Data Manipulation (Databases) IGCSE ICT IGCSE ICT - Data Analysis (Spreadsheets) IGCSE ICT
Computer Science	Topic: <ul style="list-style-type: none">• Algorithm & Problem Solving• Programming	<ul style="list-style-type: none">• Use different methods to design and construct a solution to a problem• Explain the purpose of a given algorithm	https://pastpapers.papacambidge.com/papers/caie/igcse-computer-science-0478

**Summer Aim High Study Progress Programme
Year 11
March 2024**

		<ul style="list-style-type: none"> • Explain the purpose of each validation check and writing algorithms to implement each validation check and verification checks. • Complete a trace table to document a dry-run of an algorithm • Identify errors in given algorithms and suggest ways of correcting these errors <p>Write and amend algorithms for given problems or scenarios, using: pseudocode, program code and flowcharts</p>	http://www.bitsofbytes.co/ CIE IGCSE Computer Science 2023 Save My Exams
Physical Education	To know the types of injuries and prevention in sports.	<ul style="list-style-type: none"> • Explain how injuries to muscles, ligaments and tendons happen. <p>Write strategies for preventing risk or protecting against injuries during physical activities.</p>	www.teachpe.com www.britishschoolofboston.org www.cie.org.uk www.physicaleducation.co.uk
Art	Completing the coursework.	To complete and handover the component one portfolio.	www.studentartguide.com
French	<u>Revision</u>	Grammar: <ul style="list-style-type: none"> ▪ Le subjonctif/La métaphore/L'hypothèse (si)/ La comparaison 	https://www.alloprof.qc.ca/fr/eleves/bv/francais/la-metaphore-f1370

**Summer Aim High Study Progress Programme
Year 11
March 2024**

		<ul style="list-style-type: none"> ▪ Writing: environnement/ l'éducation/ la description physique et caractères ▪ Reading: 0520/2.1/2.2 ▪ https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-french-foreign-language-0520/past-papers/ ▪ Listening: 0520/1.1/1.2 ▪ https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-french-foreign-language-0520/past-papers/ ▪ Speaking: 0520/3 <p>https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-french-foreign-language-0520/past-papers/</p>	https://francais.lingolia.com/fr/grammaire/les-verbes/subjonctif https://live-french.net/fr/grammaire-francaise/lhypothese/ https://francais.lingolia.com/fr/grammaire/les-adjectifs/le-comparatif-et-le-superlatif
Arabic (Arabs)	<p>TOPIC: اسم الآلة</p> <p>Learning objectives:</p> <p>أن يميز اسم الآلة أن يوظف اسم الآلة</p> <p>TOPIC</p>	<p>يحدد اسم الآلة في الجمل</p> <p>يكتب فقرة من إنشائه مستخدماً اسم الآلة</p> <p>يستنتاج الفكرة الرئيسية والأفكار الفرعية مع ذكر الدليل يوضح مواطن الجمال وأساليب البلاغية</p>	<p>اسم الآلة في اللغة العربية: تعريف إعراب، أمثلة واضحة (analbahr.com)</p>

Summer Aim High Study Progress Programme Year 11 March 2024

	<p>كتاب روبي Learning objectives</p> <p>أن يحدد الطالب الفكرة الرئيسية والأفكار الفرعية مع ذكر الدليل .</p> <p>أن يحلل الطالب النص تحليلًا أدبياً</p> <p>أن يبني الطالب رأيه في القضية التي يعرضها الكاتب</p>	<p>يفسر الطالب معاني المفردات الجديدة وفق سياقها في النص</p> <p>يبدي رأيه في القضية التي يعرضها الكاتب</p>	<p>قراءة وتحميل كتاب روبي مجانا pdf (للكاتب محمد راشد ال مكتوم ysk-books.com)</p>
Islamic Education (Arabs)	<p>TOPIC: مصادر التشريع الإسلامي: آداب الحوار</p> <p>Learning objectives:</p> <ol style="list-style-type: none"> 1. يتعرف مصادر التشريع. 2. يبين خصائص القرآن الكريم. 3. يشرح آداب الحوار. 4. يستنتج صفات المحاور. 	<p>يرسم خريطة ذهنية لمصادر التشريع .</p> <p>يوضح علاقة السنة بالقرآن ودور العلماء في حفظ السنة .</p> <p>يدلل على آداب الحوار في القرآن والسنة والسيرة .</p> <p>يستنتاج أهمية التحلي بآداب الحوار .</p>	<p>https://serai-uae.com/file/2660/</p> <p>https://serai-uae.com/file/2654/</p>



**Summer Aim High Study Progress Programme
Year 11
March 2024**

Islamic Education (Non Arabs)	<p>TOPIC: Islam and social networking</p> <p>Learning objectives:</p> <p>To elucidate the significance of social network in Islam</p> <p>To evaluate the consequences of social network on individuals</p>	<ol style="list-style-type: none">1- Make research focusing on online behaviour, emphasizing Islamic values such as respect and kindness. Discuss the impact of positive interactions and the importance of avoiding harmful discussions.2- Make another research focusing on the bad effects of social networking using day-to-day life situations	<p>https://www.researchgate.net/publication/338533726 THE IMPACT OF SOCIAL MEDIA ON MUSLIM SOCIETY FROM ISLAMIC PERSPECTIVE</p>
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