

Summer Aim High Study Progress Programme
Year 11
March 2025

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. 	https://taughtly.co.uk/resources/igcse-first-language-english-paper-1/ https://taughtly.co.uk/resources/first-language-english-igcse-paper-2-revision-lesson/
English Literature	<ul style="list-style-type: none"> • 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. 	https://www.languagehumanities.org/what-is-the-connection-between-literature-and-history.htm

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		<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 	
<p>Additional Mathematics</p>	<p>Trigonometry review:</p> <ul style="list-style-type: none"> • 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 above relationships (not including general solution of trigonometric equations) • Prove simple trigonometric identities <p>Integration review:</p>	<p>Make formula booklets, notes, common misconceptions and exam tips from marking schemes, while revising.</p>	<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 https://mystudycompass.com/add-maths-topical-past-paper-topic-10-trigonometry-book-1/ </p>

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	<ul style="list-style-type: none"> • 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://igcsemaths.in/2021/02/09/igcse-additional-mathematics-0606-differentiation/ https://www.savemyexams.com/igcse/additional-maths/cie/25/topic-questions/calculus/differentiation/exam-questions/ https://www.savemyexams.com/igcse/additional-maths/cie/25/topic-questions/calculus/integration/exam-questions/ </p>
Mathematics Extended	<p>Gap analysis for the Mock paper 2 and 4</p> <p>Practice worksheets with past paper questions for the following topics:</p> <ul style="list-style-type: none"> • Function graphs 	<p>Activities:</p> <p>Encourage students to do a regular recap of the topics done.</p> <p>Past paper practice both Calculator and non calculator.</p>	<p>Recorded lessons:</p> <p>Function graphs.zip - Google Drive</p> <p>Vectors 13feb.zip - Google Drive</p>

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	<ul style="list-style-type: none"> • Vectors • Trigonometry • Symmetry 	Time management while solving papers	Circle Theorems Feb12.zip - Google Drive Papacambridge.com
Statistics	<p>Gap analysis for the Mock paper.</p> <p>Revision done using past papers. Focus will be on interpreting the numerical answers in context to the question and how to answer theory questions.</p> <p>Students to download or keep a hard copy of the revision guide shared.</p>	<ul style="list-style-type: none"> • Draw a mind map on all that is learnt in probability • Calculate and interpret rates of change over time from tables using context specific formula (Index Numbers) • A Binostat is very useful for calculating binomial probabilities and deriving the formula. Balls are dropped into the Binostat and 	https://study.com/academy/practice/quiz-worksheet-drawing-a-trend-line.html https://quizlet.com/gb/478955724/edexcel-gcse-statistics-5-time-series-flash-cards/ https://mr-mathematics.com/product/conditional-probability/

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		<p>learners can calculate the probability of a ball getting into each slot.</p> <ul style="list-style-type: none"> • https://www.khanacademy.org/math/ap-statistics/random-variables-ap/binomial-random-variable/e/calculating-binomial-probability • Some useful 'Tarsia' jigsaws learners can use to practise various calculations connected with the normal distribution can be found at: www.mrbartonmaths.com/jigsaw.htm 	<p>https://www.mathsgenie.co.uk/papers/stats/IndexNumbers.pdf</p> <p>https://www.resourceaholic.com/p/statistics.html</p> <p>Interesting read: discuss https://studiousguy.com/real-life-examples-normal-distribution/</p>
Physics	<p><u>Topics- Revision</u></p> <p><u>Electromagnetic spectrum</u></p>	<p>Research on:</p> <ul style="list-style-type: none"> ❖ Create a list of questions you would like to ask your teacher. Frame higher 	<p>http://earthsky.org/space/what-is-the-electromagnetic-spectrum</p> <p>https://edpuzzle.com/media/65d84305fcb0be41700d9753</p>

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	<p>Describe typical properties and uses of radiations in all the different regions of the electromagnetic spectrum.</p> <p><u>Radioactivity</u></p> <p>Demonstrate the understanding of background radiation</p> <p>CHARACTERISTICS OF THE THREE KINDS OF EMISSION</p> <p>Identify α, β and γ-emissions by recalling – their nature</p>	<p>order questions using bloom's taxonomy.</p> <p>Research on:</p> <ul style="list-style-type: none"> • The applications of gamma radiations and how it is used in Medicine. • Research on how an infrared remote-control device for a TV works. <p>Research on:</p> <ul style="list-style-type: none"> ❖ The means of detection α, β and γ-emissions. <p>Research on:</p>	<p>https://edpuzzle.com/media/65f734ef94ce4e2b41c2062e</p> <p>https://edpuzzle.com/media/662ef5a4a7ab5978d0007fc6</p> <p>Properties: www.bbc.co.uk/schools/gcsebitesize/science/ocr_gateway_pre_2011/living_future/4_nu_clear_radiation1.shtml</p> <p>Radioactivity: http://fiziknota.blogspot.com/2010/01/radioactivity.html</p>
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	<ul style="list-style-type: none"> – their relative ionising effects – their relative penetrating abilities ❖ (β^+ are not included, β^--particles will be taken to refer to β^-) <p>Atomic model</p> <p>Describe the structure of an atom in terms of a positive nucleus and negative electrons</p> <p>Nucleus</p> <p>Describe the composition of the nucleus in terms of protons and neutrons</p> <p>State the charges of protons and neutrons</p> <p>Use the term proton number Z Use the term nucleon number A</p>	<ul style="list-style-type: none"> ❖ Create a list of questions based on Bloom's taxonomy to Practice balancing of nuclear reactions. 	<p>https://edpuzzle.com/media/653e727796c3e1401c7a3d17</p>
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Chemistry	Topics: Revision: <ul style="list-style-type: none"> • Organic chemistry • Isomerism • Oxidation of alcohol • Esterification • Hydration • Test for unsaturation • Polymers • Alcohols 	<ul style="list-style-type: none"> • Deduce the structural isomers for but-1-ene, propan-1-ol, ethyl propanoate. • Write the balanced chemical equation for making of carboxylic acid from butanol. Write the reaction conditions. • Deduce the ester formed from propanol and butanoic acid. • Write the reaction condition and products obtained for the hydration of butene. • Give the test to distinguish between polyethene and ethene, write the observations seen. • Compare and contrast condensation and addition polymers. • Elaborate how polyester, polyamide and peptide linkage are formed using the suitable example. 	<p> Crush Chemistry - Lesson Slides - IGCSE CIE IGCSE Coordinated Chemistry Lesson 3 Alkanes and alkenes - Google Slides https://markhint.in/ IGCSE Coordinated Chemistry Lesson 4 Alcohols - Google Slides IGCSE Coordinated Chemistry Lesson 5 Polymers - Google Slides </p>
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		<ul style="list-style-type: none"> Compare the two methods of making alcohol, discuss advantage and disadvantage of the each method. 	
Biology	<p><u>Topics- Revision</u></p> <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 	<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 	<ul style="list-style-type: none"> https://studymind.co.uk/notes/the-eye-its-responses/#:~:text=Pupil%20contraction%20and%20dilation%20refer,moving%20objects%20with%20our%20eyes https://www.savemyexams.com/i-gcse/biology/cie/23/revision-notes/14-coordination-and-response/14-1-coordination-response-and-homeostasis/14-1-6-the-eye/ https://my.clevelandclinic.org/health/articles/22513-neurotransmitters

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	<ul style="list-style-type: none"> glomerulus in the filtration from the blood of water, glucose, urea and salts. 	<ul style="list-style-type: none"> Elaborate on the Process Of Deamination & Urine formation(Include the important processes involved and the diagrams). 	<ul style="list-style-type: none"> https://byjus.com/biology/recombinant-dna-technology/ https://www.evitria.com/journal/recombinant-antibodies/recombinant-dna-technology/
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 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 	<ul style="list-style-type: none"> 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 practicalaction.org/solar-drying-2 https://greatist.com/eat/ultimate-list-kitchen-tools-healthy-cooking

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		<ul style="list-style-type: none"> • Basic proportions and methods of making • 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	Revision of all topics in the syllabus.	Solve past paper questions from the series 0455/ May/ June/ 2023 Paper 11, 12, 13, 21, 22, 23 and 0455/ Oct/ Nov/ 2023 Paper 11, 12, 13, 21, 22, 23	www.dineshbakshi.com www.cie.org.uk www.igcseaid.com www.papacambridge.com

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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. 	<ul style="list-style-type: none"> Solve past paper questions from the series May/ Jun; Oct/ Nov 2020 to 2023 Paper 12 and P22 	www.dineshbakshi.com www.cie.org.uk www.myaccountinglab.com
Business Studies	<ul style="list-style-type: none"> Revision of all topics in the syllabus. 	<ul style="list-style-type: none"> Solve past paper questions from the series 0450/23 October/November 2024 and 0450/21 October/November 2024 	www.dineshbakshi.com www.cie.org.uk www.papacambridge.com
Travel and Tourism	Revision of all topics in the syllabus.	Solve past paper questions from the series 0471/ May/ June/ 2023 Paper 11, 12, 13, 21, 22, 23 and 0471/ Oct/ Nov/ 2023 Paper 11, 12, 13, 21, 22, 23	www.cie.org.uk www.igcseaid.com www.papacambridge.com

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Sociology	Revisit the topics	Solve past papers paper 1 and 2	https://pastpapers.papacambridge.com/papers/caie/igcse-sociology0495
Psychology	<ul style="list-style-type: none"> Revisit the research methods (Research types, variables, sampling, ethical issues) 	<ul style="list-style-type: none"> Solve past paper questions from 2023 to 2021 of PS0/02- Paper 2 	https://www.physicsandmathstutor.com/past-papers/gcse-psychology/edexcel-paper-1/
Geography	<p>Water</p> <p>To investigate the methods of water supply and the reasons for water shortage in some parts of the world.</p>	Students will use chosen sources to research the topic and create flash cards that can be used for revision.	Sources to be chosen by the student for research.
History	<ul style="list-style-type: none"> To revisit the unit on: How effectively did the United States contain the spread of communism? To revisit the unit on: How did the Bolsheviks gain power, and how did they consolidate their rule? 	<ul style="list-style-type: none"> Solve past paper questions from the series May/ Jun; Oct/ Nov 2020 to 2024 Paper 1 & Paper 4 	https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-history-0470/past-papers/

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Environmental Management	Natural Ecosystem - Conservation of habitats	Choose an endangered species to make a conservation plan for. You can use this website to get you started. You must include; General information about the species. Pictures of the species. Information about its habitat. Why is it endangered? Is anything being done to help? What other actions could be put in place?	Species Protecting Wildlife World Wildlife Fund
ICT	Theory: Applications of ICT Practical: Database Spreadsheets Document production Web authoring	Encourage your child to practice practical past papers on data manipulation, spreadsheets, and web authoring concepts. Discuss and evaluate the applications of ICT in various fields, such as communication, modeling, control systems, satellite communication, retail systems, expert systems, school databases, medical systems, and online banking.	https://www.teach-ict.com/gcse_new/gcse_ict_home.html

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Computer Science	<ul style="list-style-type: none"> • Data representation • Data transmission • Hardware • Software • The internet and its uses • Automated and emerging technologies 	<p>Encourage your child to practice practical past papers on Paper 1 topics—Data Representation, Data Transmission, Hardware, Software, the Internet and its uses, and Automated and Emerging Technologies—and Paper 2 topics—Algorithm Design and Problem-Solving, Programming, Databases, and Boolean Logic.</p> <ul style="list-style-type: none"> • Practice scenario-based questions for programming. 	https://www.bbc.co.uk/bitesize/guides/z6qqmsg/revision/1
Physical Education	Coursework submission and examination	Final Practical Exam-Students are requested to submit the 30 minutes Practical game videos for the course work.	<ul style="list-style-type: none"> • Cambridge IGCSE Physical Education 0413
Art	Coursework submission and examination	Students to start working on the final coursework submission for component one and start researching for the component 2.	www.studentguide.com
French	General revision: - Writing: Component 4.2	To ensure that all the students are working on their area of development after receiving feedback to work on their targets.	https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-

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	<ul style="list-style-type: none"> - Listening: Component 1.2 - Reading: Component 2.2 - Speaking: 3 	Revise all the grammar tools Revise and recall all the necessary tips: speaking and listening Submission of the final drafts – followed by diagnostic feedback	french-foreign-language-0520/past-papers/
Islamic Education Arabs	وصايا وتوجيهات أخلاقية-سورة الأحزاب 28-35 منهج الإسلام في بناء الأسرة	تفسير بعض المفردات القرآنية للآيات الكريمة استنتاج المبادئ والتوجيهات الأخلاقية الواردة في الآيات التعبير عن الحرص على القيم الواردة وتطبيقها في الحياة بيان أهمية الأسرة في الإسلام توضيح مظاهر اهتمام الإسلام بالأسرة تحديد وظائف الأسرة في الإسلام استنتاج أسس بناء الأسرة في الإسلام	https://seraj-uae.com/file/204/ https://www.uae-study.com/2020/11/Ethical-commandments-and-directives.html https://teacherhelp.info/%D9%85%D9%86%D9%87%D8%AC-%D8%A7%D9%84%D8%A5%D8%B3%D9%84%D8%A7%D9%85-%D9%81%D9%8A-%D8%A8%D9%86%D8%A7%D8%A1-%D8%A7%D9%84%D8%A3%D8%B3%D8%B1%D8%A9/

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<p>Arabic (Arabs)</p>	<p>اسم الآلة: TOPIC</p> <p>Learning objectives:</p> <p>أن يميز الطالب اسم الآلة</p> <p>أن يوظف اسم الآلة</p> <p>TOPIC</p> <p>التشبيه التمثيلي</p> <p>Learning objectives</p> <p>أن يميز الطالب التشبيه التمثيلي</p> <p>أن يوظف الطالب التشبيه التمثيلي</p>	<p>يحدد اسم الآلة في الجمل</p> <p>يكتب فقرة من إنشائه مستخدمًا اسم الآلة</p> <p>ستخرج التشبيه التمثيلي في الجمل</p> <p>يكتب فقرة من إنشائه مستخدمًا التشبيه التمثيلي</p>	<p>https://www.youtube.com/watch?v=POTqyBpD-AQ</p> <p>https://www.youtube.com/watch?v=Oxy4vJwcKes</p>
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<p>Islamic Education</p>	<p>1. <u>Scientific Miracles of the Holy Quran</u></p> <ul style="list-style-type: none"> Students will be able to <p>Apply the benefits of scientific miracles</p> <p>Cite more examples of scientific miracles in the Holy Quran</p> <p>2. <u>Methodology of Islam in Family Building</u></p> <p>Infer the family building in Islam.</p> <p>Find solutions to maintain cohesion of the family and society.</p> <p>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://themuslimvibe.com/faith-islam/13-scientific-facts-in-the-holy-quran</p> <p>https://al-islam.org/muslim-family/how-islam-builds-family</p>
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Moral Education	<p>Topic: What are the Challenges to Intercultural Communications</p> <p>Learning Objective: To identify different challenges in intercultural communications.</p>	<p>Activities: Encourage discussions on guidelines for effective intercultural communications and dialogue.</p>	<p>https://socialsci.libretexts.org/Courses/Southwest Tennessee Community College/Competent Communication/02%3A Culture and Communication/2.03%3A Barriers to Intercultural Communication</p>
PSHCEE	<p>Topic: Dealing With Change</p> <p>Learning Objective: Will be able to identify expected and unexpected changes describe the impact that change can have explain different ways of managing change and where to seek support.</p>	<p>Activities: Encourage discussions on personal interests, relationships, home life, school life, homework, exams, college, work and possible changes in wider society</p>	<p>https://www.newleaders.org/blog/five-insights-for-leading-and-managing-change-in-your-school</p>