مدرسة وينشستر
The Winchester School
Jebel Ali

Aim High Study Progress Programme

YEAR 11 November 2026

Area for learning	Focus	Activities	Useful Websites/Apps
English 1st Language	• To enable learners to analyse relevant ideas in various texts to complete the given task.	• Analyse and complete the given past paper in the link.	IGCSE English 0500/22 Paper 2 Feb/Mar 2021 (gceguide.com) IGCSE English 0500/22 Insert Feb/Mar 2021 (gceguide.com)
English 2nd Language	• To enable students to formulate given tasks by analysing appropriate information.	• Analyse and complete the given past paper in the link.	IGCSE 0510/22 English as a Second Language February 2021 (gceguide.com)
English Literature	• To introduce learners to poetic styles and devices.	• Analyse the themes of any 1 poem done in class and compare them with another poem written by the same poet.	How to read and understand poetry: IGCSE - Bing video
Mathematics (Additional Maths)	**Permutations and Combinations** • Recognise and distinguish between a permutation case and a combination case • k\Know and use the notation n! (With 0! = 1), and the expressions for permutations and combinations of n items taken r at a time	Research on the real-life application of Permuations and Combinations in • Permutations and combinations find real-life applications in logistics, cyber security and biology	**https://www.teachoo.com/2367/1607/Ex-7.3--8---How-many-words-can-be-formed-using-EQUATION/category/Permutation--non-repeating/**

	• Answer simple problems on arrangement and selection	• Combinatorics has many applications in other areas of mathematics, including graph theory, coding and cryptography, and probability. • Permutations are used in almost every branch of mathematics and in many other fields of science. In computer science, they are used for analyzing sorting algorithms; in quantum physics, for describing states of particles; and in biology, for describing RNA sequences.	**https://www.onlinemathlearning.com/igcse-permutations-combinations.html**
Mathematics (Extended)	**Graphs of Functions:** **Learning outcomes:** • To draw and estimate the minimum and maximum value of y	• Research on which industries rely on finding minima/maxima (e.g., civil engineers, business analysts).	https://mrmannmaths.wordpress.com/wp-content/uploads/2018/01/2016-2017-ppqs-graphs-qp.pdf

Aim High Study Progress Programme

YEAR 11 November 2026

	• To draw the tangents to a cubic curve and find the solutions to the graph by drawing straight lines • To draw reciprocal and exponential graphs from the given equations	• In physics, tangent to distance-time curve = speed at that instant. • In economics, tangent to profit curve = marginal profit. Research Task: Pick **one context** (physics, business, biology) and explain why drawing a tangent is important there.	https://pmt.physicsandmathstutor.com/download/Maths/GCSE/Topic-Qs/Edexcel/Set-3/Algebra/Higher/Quadratic,%20Cubic%20and%20Other%20Graphs%20(H).pdf quadratic-graphs-ws.pdf https://www.tes.com/resource-detail/download/12002771
Statistics	**Probability distributions: Normal distribution and standardized scores** **Learning objective:** • Know the shape of a normal distribution curve and how this occurs; Understand the notation N(μ,σ^2); Know the conditions that make the normal distribution model suitable	**Probability distributions** 1. Dice Rolling Simulation • Activity: Have participants roll a pair of dice multiple times (e.g., 50 rolls) and record the sum of the two dice on each roll. Plot the frequency distribution of the sums.	https://quizlet.com/gb/478955724/edexcel-gcse-statistics-5-time-series-flash-cards/ https://www.mathsgenie.co.uk/statistics.php

	• Know how to draw two distribution curves on the same graph; Know that 68% of data lies within one standard deviations of the mean, 95% of data lies within two standard deviations of the mean; Use standardized scores to compare two samples of data. **Quality Assurance and control charts** • **Learning objectives** • Understand the process of quality assurance and why it is necessary in the real world. • Calculate warning limits and action limits for means. • Draw warning limits and action limits on a control chart for means, medians or ranges. • Understand how warning limits and action limits are used in the manufacturing process.	• Objective: Introduce the concept of a discrete probability distribution by observing that some sums (like 7) are more common, leading to a bell-shaped distribution. 2. Coin Toss Probability • Activity: Have participants flip a coin 100 times and record how often head and tails occur. Then, ask them to calculate the experimental probability and compare it to theoretical probability. • Objective: Understand the binomial distribution and how large sample sizes tend to reflect theoretical probabilities. 3. Create a Probability Histogram • Activity: Using a bag of colored marbles, ask participants to draw marbles one by one, record the color, and then replace	https://www.samworth.tgacademy.org.uk/files/2023/04/Statistics-GCSE-Revision-Notes.pdf

		the marble. After many draws, plot the frequency of each color as a histogram. • Objective: Visualize a discrete probability distribution by showing how frequencies stabilize over time. 4. Random Number Distribution • Activity: Use a random number generator (e.g., from 1 to 100) and have participants generate a set of 100 numbers. Then, have them create a histogram of the frequency of each number. • Objective: Explore the concept of uniform distribution, where each number has an equal likelihood of appearing.	

مدرسة وينشستر
The Winchester School
Jebel Ali

Aim High Study Progress Programme

YEAR 11 November 2026

Physics	**ELECTROMAGNETIC INDUCTION** ➢ Analyze the factors affecting magnitude and direction of an induced e mf Demonstrate the working of transformer Revision for Premock	• Do research on the uses of electromagnets in day to day life. • Use simulation to explain working of transformer Demonstarte knowledge of how to safely use techniques, apparatus and materials, planning an experiment & analysing errors	www.skool.co.uk www.Islandphysics.com www.cie.org.uk https://www.e4training.com/eddy/simulate9.html https://interactives.ck12.org/simulations/physics/ac-transformer/app/index.html https://www.physicsandmathstutor.com/physics-revision/igcse-cie/

Aim High Study Progress Programme

YEAR 11 November 2026

Chemistry	**Topics:** **Fractional Distillation:** • To outline the process fractional distillation and mention the uses of their fractions **Alkanes:** To outline the physical and chemical properties of alkanes.	• Research on how fractional distillation is done for crude oil and list the uses of each fraction. • Use the simulation link to attempt the quiz questions on fractional distillation of crude oil. • Design and present an infographic poster to compare and contrast the chemical properties of alkanes using the chemical equations for reactions of alkanes. • Research on the real-life uses of hydrocarbons.	https://www.bbc.com/bitesize/guides/zshvw6f/revision/3 https://www.footprints-science.co.uk/index.php?type=Fractional_distillation https://www.savemyexams.com/igcse/chemistry/cie/23/revision-notes/11-organic-chemistry/11-2-organic-families/11-2-2-alkanes/
Biology	**Reproduction in Plants:** • Explain the process of reproduction involving a single parent and describe how it occurs in different organisms, including: Reproduction in bacteria Spore production in fungi	**Activities: Encourage the students to** • Make a report on how horticulturists exploit process of reproduction involving a single parent in bulbs and rhizomes e.g. daffodils, orchids.	https://www.savemyexams.com/igcse/biology/cie/23/revision-notes/16-reproduction/16-1-reproduction-in-plants-and-humans/16-1-1-asexual-reproduction/

Aim High Study Progress Programme

YEAR 11 November 2026

	Tuber formation in potatoes • Examine the benefits and drawbacks of single-parent reproduction for a species. • Describe the menstrual cycle in terms of changes in the uterus and ovaries • 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 • Outline the development of the foetus: describe the function of the placenta and the umbilical cord	• Create an infographic poster comparing process of reproduction involving a single parent in plants, bacteria & fungi • Create a flow chart or a graphical representation to demonstrate menstrual cycle and the levels of hormones associated at different phase of it using any ICT tool. • Create a presentation to outline the stages of zygote from fertilization until it gets implanted in the endometrium.	https://study.com/academy/lesson/organisms-that-reproduce-both-asexually-sexually.html https://igcseaid.com/notes/co-ordinated-sciences-0654-2019-21/b10-1-asexual-and-sexual-reproduction/ https://helloclue.com/articles/cycle-a-z/the-menstrual-cycle-more-than-just-the-period https://byjus.com/biology/zygote/ https://byjus.com/biology/difference-between-the-placenta-and-umbilical-cord/

			https://www.savemyexams.com/igcse/biology/edexcel/19/revision-notes/3-reproduction--inheritance/reproduction/3-11-role-of-the-placenta/
Economics	**Topic – Current Account and Balance of Payment** • To Illustrate structure of BOP. • To analyse the causes of current account deficit and surplus • To discuss consequences of current account deficit and surplus • To evaluate the policies to achieve the balance of payments stability	Task 1 - Explore possible consequences of current account deficits and surpluses. Task 2 - Examine how the price elasticity of demand for imports and exports would affect the extent to which a change in the currency value would correct a current account imbalance. Task 3 - Evaluate how the use of a floating exchange rate could be used	https://igcseaid.com/notes/economics-0455/6-4-current-account-of-balance-of-payments/ https://www.economicshelp.org/blog/glossary/current-account-bop/

Aim High Study Progress Programme

YEAR 11 November 2026

		to correct a current account deficit or surplus. Produce your findings in the form of a Report/ Prezi	
Accounting	Partnership Accounts • To recognize the advantages and disadvantages of partnerships • To prepare relevant financial statement pertaining to partnership businesses.	• Research about the businesses in UAE and compare how a partnership business is different from sole trading business. • Evaluate the financial statements prepared at the end of the financial year. • Produce a partnership agreement.	www.dineshbakshi.com www.cie.org.uk www.myaccountinglab.com
Business studies	Environmental and ethical issues: To analyze the concept of externalities; possible external costs and external benefits of business	Country X has one international airport in its capital city. The existing airport is unable to handle the increased air traffic. The government is planning to open a	https://www.caiebusiness.com/igcse-environmental-ethical-issues/#:~:text=So%20external%20costs%20are%20the,benefits%20because%20of%20business%20activity

	decisions; sustainable development and to evaluate further how businesses' activity can contribute to this.	second airport. The proposed location is near a residential area. There has been much opposition from environmentalists and the community in the proposed location. The Government however thinks this will be good for the economy (which is in recession) and wants to go ahead with the decision. 1. Identify the stakeholders involved in this business decision. 2. As a spokesperson for the community, identify and analyse the social costs the community would have to experience because of a new airport nearby. 3. Imagine you are a government official placed in a decision-making committee of this project.	https://www.caiebusiness.com/igcse-environmental-ethical-issues/#:~:text=So%20external%20costs%20are%20the,benefits%20because%20of%20business%20activity https://blog.cambridgeinternational.org/becoming-part-of-the-solution-education-for-sustainable-development/

		Explain the economic benefits of this decision and how they will help the economy grow. 4. From the point of view of an environmentalist, discuss the impact (social costs) that the business decision would have on the environment. 5. Present the above arguments of at least three of the stakeholders (identified in question 1) in a table Conduct a cost benefit analysis and evaluate whether this project is worth considering. Do the economic and social benefits exceed the social costs?	
Travel and Tourism	• Market analysis tools • To analyse the market analysis tools used in travel and tourism.	• Select a local tourism organisation learners will be familiar with. In small groups,	www.marketingtutor.net/pestle-analysis-of-the-hotel-industry/

	• To assess how SWOT/PESTLE analysis helps tourism organization to resolve the issue raised in these analysis.	learners create PESTLE analysis and/or a SWOT analysis for the organisation. • Extension activity: Learners suggest ways that the tourism organisation could manage the issues raised in the PESTLE/SWOT analysis.	Useful link to a generic PESTLE on the hotel industry: www.marketingtutor.net/pestle-analysis-of-the-hotel-industry/
ICT	Topic: System Life Cycle Evaluate the stages of the System Life Cycle and justify appropriate methods used at each stage for a given scenario.	**Scenario:** A school currently records student attendance on paper. The school wants to introduce a **computerised attendance system** so teachers can record attendance quickly and office staff can produce attendance reports.	**www.igcseict.info** **www.papacambridge.com**

Aim High Study Progress Programme

YEAR 11 November 2026

		Aim High Question: Explain how the **systems life cycle** could be used to develop the new attendance system. Give an example of what would happen at each stage. Recommend whether interviews, questionnaires, observation or examination of documents should be used to collect information from users. Give reasons for your answer.	
Computer Science	Topic : Revision on Automated System : Revision on Programming Learning Objective: • To describe the advantages and disadvantages of Automated systems • To outline various applications of sensors • To describe why automated system can log and work effectively than humans •	Whether its robots welding cars in a factory, autonomous grass cutters or smart road signs, the effects of automated systems can be seen all around us. These automated systems are becoming increasingly sophisticated and complex.	https://www.bbc.co.uk/bitesize/guides/zn4bcj6/revision/1 https://www.savemyexams.com/igcse/computer-science/cie/23/revision-notes/8-programming/programming-concepts/procedures-and-functions/

	To justify how sensors and microprocessors are used in control applications • To design and formulate a solution for the given problem using pseudocode.	• Describe how sensors, microprocessors and actuators can be used in collaboration to create automated systems • Analyse the advantages and disadvantages of an automated system used in each scenario.	
Psychology	Psychological Problems- Depression, Addiction- to explain the symptoms, causes and treatments of depression and addiction, evaluate psychological explanations using evidence from research studies, and apply their knowledge	"Evaluate the effectiveness of Cognitive Behavioural Therapy (CBT) as a treatment for depression or addiction." Include evidence from **Young (2007)** and discuss reliability, validity or ethics. "Biological factors are more important than environmental factors in explaining depression and addiction." Evaluate this statement using psychological evidence.	**Psychological Problems** https://qualifications.pearson.com/content/dam/pdf/GCSE/Psychology/2017/Teaching-and-learning-materials/topic-guide-3-psychological-problems.pdf [qualificat...earson.com] https://qualifications.pearson.com/en/qualifications/edexcel-

			gcses/psychology-2017.html [qualificat...earson.com] https://www.thinka.ai/en-GB/Pearson-Edexcel-GCSE-9-1/Psychology-1PS0 [thinka.ai]
Sociology	Social Inequality: To analyse the causes and effects of social inequality, evaluate sociological explanations for inequality	To what extent is social class the main cause of inequality in modern society?" (15 marks) **Challenge Extension:** Include at least one counter-argument using ethnicity or gender as an alternative explanation. "Marxists argue that social inequality is unavoidable in capitalist societies. Evaluate this view using evidence from class, gender and ethnic inequalities."	**Cambridge IGCSE Sociology (0495)** Course Overview [cambridgei...tional.org] https://marlbridge.com/boards/cambridge/igcse/sociology/ [marlbridge.com]

Aim High Study Progress Programme

YEAR 11 November 2026

Environmental Management	<u>Natural Hazards:</u> To investigate the causes, impacts, distribution of earthquakes, volcanoes, Tropical cyclones, Flooding and Droughts: and strategies to manage them.	Use the internet to research about the following Natural hazards: Earthquakes, Volcanoes, Tropical cyclones, Flooding and Drought. Create Revision Flashcards on the following: • Distribution • Causes • Impacts • Evaluate the strategies to manage them.	https://www.internetgeography.net/edexcel-igcse-geography-revision https://www.google.com/goto?url=CAESbgHrOzAVBEkjTBpsvDl https://www.usgs.gov › mission-areas › natural-hazards https://www.google.com/goto?url=CAESYwHrOzAVdZmQ93BTLz7gYPNxNZu5GaZpWf2-MjPtD4ITGtBoE9i-QqarP60YywusoJIWaV75O-nbJ_FvrZrypa2PCpaWRUHaxsa0LMXz60oveGy_L4Rq6Xf1VzBVsReCkSNEag
History	Hitlers Foreign policy- to explain Hitler's foreign policy aims, assess the significance of key foreign policy actions between 1933 and 1939, and evaluate the extent to which	"How far was Hitler's foreign policy responsible for the outbreak of the Second World War?"	**Hitler's Foreign Policy** https://www.savemyexams.com/igcse/history/cie/18/revision-notes/the-20th-century-

	Hitler's foreign policy caused the outbreak of the Second World War	**Extension:** Evaluate alternative factors such as: • Weakness of the League of Nations • Appeasement • Nazi-Soviet Pact	international-relations-from-1919/was-hitlers-foreign-policy-to-blame-for-the-second-world-war/context-of-the-second-world-war/ [savemyexams.com] **GCSE History Timeline of Hitler's Actions** https://www.gcsehistory.com/faq/hitlersaction.html [gcsehistory.com] **Bright Revision: Hitler's Foreign Policy and Appeasement** https://brightrevision.co.uk/notes/gcse/history/conflict-and-tension-1918-1939/hitler-s-foreign-policy-and-appeasement-1933-1939 [brightrevision.co.uk]

مدرسة وينشستر
The Winchester School
Jebel Ali

Aim High Study Progress Programme

YEAR 11 November 2026

Art and Design	E Portfolio submission	Updating works and completing e portfolio for submission.	www.studentartguide.com
French	• Notre environnement est en danger – page 136 • Le temps qu'il fait- page 138 • Les changements de climat • On se déplace- page 150 • l'enseignement secondaire en France – page 170 • Le participe présent • Le gérondif	**Writing:** Students are requested to make a draft about the environment, needs to identify the problems, and find solutions. **Speaking:** students are requested to make a podcast about the environment, needs to identify the problems, and find solutions. **Reading:** structured reading tasks about the same topics above and IGCSE past papers. **Listening:** structured listening tasks about the same topics above and IGCSE past papers.	https://bv.cdeacf.ca/RA_PDF/53290.pdf https://www.alloprof.qc.ca/fr/eleves/bv/monde-contemporain/les-problemes-environnementaux-les-causes-h1902 https://pastpapers.papacambridge.com/papers/caie/igcse-french-0520
Arabic (Arabs)	TOPIC: كيفية تقدير الذات نص معلوماتي	ولي الأمر يقرأ مع المتعلم النص المعلوماتي بعمق وشمولية	**https://seraj-uae.com/file/11842/**

Aim High Study Progress Programme

YEAR 11 November 2026

	Learning objectives: أن يحدد الطالب الفكرة الرئيسة والأفكار الفرعية. أن يحلل الطالب النص تحليلاً أدبيًا. - أن يستنتج خصائص النص TOPIC: قصة الرجل العجوز عند الجسر Learning objectives: - أن يحدد عناصر القصّة الفنية. - أن يحدد المعنى المناسب للكلمات متعددة المعاني من خلال السياق. - أن يكتب قصّة قصيرة يعيد فيها بناء القصّة الواردة.	يحدد ولي الأمر مع المتعلم الفكر الرئيسية للنص من خلال ولي الأمر مع المتعلم يحللان المعلومات الصريحة والضمنية مستشهدان بمصادر متنوعة من الأدلة التي تدعم تحليله محددان نوعها مثل (إحصاءات وأرقام وأدلة منطقية وتجارب ومواقف ولي الأمر يقرأ مع المتعلم القصة بعمق وشمولية يتناقش ولي الأمر مع المتعلم حول (أحداث القصة –والفكر الواردة - الشخصيات – معجم القصة –وضع نهاية مختلفة للقصة –خصائص مدرسة أدب الخراب – واجبنا تجاه الشعوب المنكوبة – نقد القصة)	https://seraj-uae.com/file/11842/

مدرسة وينشستر
The Winchester School
Jebel Ali

Aim High Study Progress Programme

YEAR 11 November 2026

Physical Education	Range of strategies for increasing access and participation, promotion and better provision.	Students are requested to make a poster/programme for the same.	Cambridge IGCSE Physical Education 0413
Islamic Education (Arabs)	**عنوان الدرس: العقل في الإسلام** Learning objectives: **1.يعرّف مفهوم العقل كما ورد في الإسلام.** **2.يستدل من القرآن والسنة على منزلة العقل ودوره في حياة الإنسان.** **3.يوضح العلاقة بين العقل والوحي في بناء الفكر الإسلامي.** **4.يبيّن أثر استخدام العقل في تحقيق الإيمان والعمل الصالح.** **5.يناقش خطورة تعطيل العقل أو استخدامه في الباطل.**	**مفهوم العقل وأهميته** **بالتعاون مع طفلك وضّح مفهوم العقل في الإسلام، وما يميّزه عن التفكير المادي البحت، مع الاستدلال من القرآن الكريم.** **العقل نعمة من الله : ناقش مع طفلك كيف يُعدّ العقل من أعظم النعم التي أنعم الله بها على الإنسان، مع بيان واجب المسلم في شكر هذه النعمة.** **العقل والإيمان : شجع طفلك على توضيح العلاقة بين العقل والإيمان.** **شارك طفلك هل الإيمان يعتمد على العقل فقط أم يتجاوزه إلى التصديق بالغيب؟** **مع الشرح وبيان الأسباب**	https://www.awqaf.gov.ae https://quran.com www.dorar.net https://seraj-uae.com/ https://u.ae https://www.moe.gov.ae/

Aim High Study Progress Programme

YEAR 11 November 2026

Islamic Education (Non-Arabs)	Sakinah bint al Husayn **Learning Objectives** 1. Analyze how Sukayna bint al-Husayn showed courage, patience, and dignity during difficult events. 2. Evaluate how lessons from her life can guide Muslims when facing challenges, injustice, or loss today. **JIHAD** **Learning Objectives** 1. Explain the meaning of Jihad in Islam as striving to obey Allah through self-discipline, good character, learning, service, and resisting wrongdoing. 2. Analyze different real-life situations and decide how a Muslim can practice Jihad	**Home Activity with Parents** Family Reflection Challenge Ask a parent to choose one difficult situation a family may face, such as loss, unfair treatment, fear, or disappointment. Discuss together: • How might Sukayna bint al-Husayn respond to this situation? • Which Islamic value would help most? • What would you personally do?	https://www.quran.is/topics/jihad SAKINAH BINT AL HUSAYN

	responsibly through patience, honesty, helping others, and controlling harmful desires.	Then write a short family response with one lesson from her life and one action you can apply this week. **Home Activity with Parents** Family Jihad Challenge With your parents, choose one personal struggle for this week, such as controlling anger, avoiding lying, helping at home, praying on time, or reducing screen time. Together: • Identify the challenge. • Choose one Islamic value to help overcome it. • Set one measurable action for 7 days.	

Aim High Study Progress Programme

YEAR 11 November 2026

		• At the end of the week, discuss what changed and what was difficult.	
PSCHEE	• Bullying Learning Outcome- To identify types of bullying and exploring the roles of victims, bullies and bystanders.	• Activities Discuss the effects of bullying on children	https://www.khaleejtimes.com/uae/schools-and-parents/anti-bullying-measures-schools
Moral Education	• The Individual and The Community- What are the Benefits of Living a Moderate Life • Learning Objective- To recognise and articulate the benefits of living a moderate life, both physically and emotionally and making responsible choices	• Activities Discuss with your family members the advantages of living a moderate life and how making responsible choices shape your personality	https://www.kauveryhospital.com/blog/family-and-general-medicine/everything-in-moderation-the-formula-for-a-good-life/