



Aim High Study Progress Programme
Year 10
December 2021

Area for learning	Focus	Activities	Useful Websites/Apps
English 1st Language	<ul style="list-style-type: none">● Summary Writing● To be able to summarize using higher order connectives.● To be able to select only the key points from the text.	<ul style="list-style-type: none">● Follow the link mentioned and understand the summary writing tips● You must try to summarise any of the novels that you have recently read or the movie that you have watched into one single paragraph.●	IGCSE 0500: Effective Summary Writing – Young Scholarz
English 2nd Language	<ul style="list-style-type: none">● Reading & Writing● To skim and scan the passage and answer the questions appropriately.● To demonstrate the ability to extract relevant information from a wider range of texts, including	<ul style="list-style-type: none">● Practice reading every day. Read different fields/ different genre of writing to improve your vocabulary.● Take note all new words and learn them.● Practice reading techniques - scanning, skimming, intensive and extensive reading.	IGCSE ESL Resources Free exercises to be successful in the new exam (esleschool.com)



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	<p>magazines and newspapers likely to be read by young people.</p> <ul style="list-style-type: none">● To identify the important points or themes within an extended piece of writing.● To draw conclusions from and see relations within an extended text.	<ul style="list-style-type: none">● Write summary of the articles published in newspaper or magazine.● Attempt reading comprehension passages.● Attempt note-making exercises● Attempt form filling exercises	
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English Literature	<ul style="list-style-type: none">The Purple Hibiscus	<ul style="list-style-type: none">Create character analysis chart for each of the main characters of the novel using the PEE approach.Research on the Colonialism and Nigerian Politics and link it to the novel by giving evidence from the text.	https://www.sparknotes.com/lit/purple-hibiscus/summary/ https://www.historians.org/teaching-and-learning/teaching-resources-for-historians/teaching-and-learning-in-the-digital-age/through-the-lens-of-history-biafra-nigeria-the-west-and-the-world/the-colonial-and-pre-colonial-eras-in-nigeria
Mathematics Accelerated	Congruence & Similarity <ul style="list-style-type: none">To recognise congruent shapes	<ul style="list-style-type: none">Take two identical cylindrical jars. Measure its dimensions. Apply your knowledge of volume of cylinders to calculate the volume of jars. Now try	https://revisionmaths.com/gcse-maths-revision/trigonometry/congruency



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	<ul style="list-style-type: none"> • Use the basic congruence criteria for triangles (SSS, ASA, SAS, RHS). • Calculate lengths of similar figures. • Use the relationships between areas of similar triangles, with corresponding results for similar figures and extension to volumes and surface areas of similar solids. 	<p>to derive the relation between dimensions (radius/height) of cylinders with their volumes</p> <ul style="list-style-type: none"> • Enlarging a Picture and Scaling Up What is scale factor? • How do you find scale factor given two similar figures? Research on the application of scale factor to compare area and volumes of similar shapes 	<p>https://www.bbc.co.uk/bitesize/guides/zxmfmsg/revision/2</p> <p>http://www.mathsmutt.co.uk/files/simcomp.htm</p> <p>https://www.onlinemathlearning.com/prove-triangles-congruent.html</p>
Mathematics Extended	<p>Cumulative frequency curve: Understand and apply concept of cumulative frequency diagram. Construct a cumulative frequency curve for grouped data and to estimate the median and quartiles.</p>	<p>Create a group frequency table on the marks your class got for your last math review test. Find median from the table.</p> <p>Research on box and whisker plot. Create a box and whisker plot, given quartiles and median.</p>	<p>http://www.bbc.co.uk/schools/gcsebitesize/maths/statistics/representingdata3hirev5.shtml</p>



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	<p>Box and whisker plot Construct box and whisker plot when quartiles are given Read and interpret box and whisker plot.</p>		<p>https://www.onlinemathlearning.com/cumulative-frequency-graph.html</p> <p>https://www.youtube.com/watch?v=z41_PBqYuVg https://www.youtube.com/watch?v=Q2OF86ZUYMs</p>
Statistics	<p>Measures of central tendency – mode, median and mean</p> <ul style="list-style-type: none">• Calculate the mean, mode and median for discrete data, continuous data.• Describe the advantages and disadvantages of each measure	<p>Practice Transformations of mean, mode and median will be simple scaling such as: Everyone in the class results were reduced by 5 marks: how would this effect the mean, mode and median?</p>	<p>https://www.mathsgenie.co.uk/mean-tables.html</p> <p>https://www.bbc.co.uk/bitesize/guides/zwhgk2p/revision/7</p>

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	<p>of central tendency. Understand the effect of transformations on the mean, mode, median.</p>		
<p>Physics</p>	<p>Work, Energy and Power</p> <ul style="list-style-type: none"> To relate work done to the magnitude of a force and the distance moved To describe energy changes in terms of work done To recall and use $W = Fd = E$ To relate power to work done and time taken, using appropriate examples To recall and use the equation $P = E/t$ to solve problems. 	<ul style="list-style-type: none"> Revise and practice questions from past paper on work, energy and power. 	<ul style="list-style-type: none"> www.skool.co.uk www.islandphysics.com https://hgphysics.com/gp/h/d-energy/work/ https://www.bbc.co.uk/education/guides/zssk7ty/revision http://www.bbc.co.uk/schools/gcsebitesize/science/21c/sustainable energy/choosing energy sourcesrev1.shtml http://www.bbc.co.uk/schools/gcsebitesize/geogr



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		<ul style="list-style-type: none">•• Make an interactive presentation on different types of energy resources using GLOGSTER.•• Use PADLET and give examples for each type that is present in UAE or in your home country.• Use the ideas of transfer of energy and power to explain the following:• Water at the bottom of water- fall is warmer than at the top.• Our hands become warm when we rush them against each other.	<ul style="list-style-type: none">• https://www.youtube.com/watch?v=pDK2p1QbPKQ
Chemistry	Chemical Reactions <ul style="list-style-type: none">• To classify the different types of chemical reactions• Predict the types of reactions and identify the products	ACTIVITY 1: <ul style="list-style-type: none">• Research about the types of reactions. ACTIVITY 2:	<ul style="list-style-type: none">• https://www.onlinemathlearning.com/chemical-reactions-equations.html#:~:text=Five%20major%20types%2



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	<ul style="list-style-type: none">• Write and balance symbol equations	<ul style="list-style-type: none">• Many chemical reactions release or absorb energy. What are these reactions called? Classify the reactions.• State the type, predict the products and balance the equation	<p>Oof%20chemical,(also%20called%20double%20displacement).</p> <ul style="list-style-type: none">• https://www.physicsandmathstutor.com/chemistry-revision/igcse-cie/chemical-reactions/• https://www.youtube.com/watch?v=WWJQpuv9EIE
Biology	<p>Plant Nutrition:</p> <ul style="list-style-type: none">• To explain how the structure of the leaf is adapted for photosynthesis.• To investigate the necessity for chlorophyll, light and carbon	<ul style="list-style-type: none">• Encourage the students to investigate the different types of leaves and pigments present in a leaf using simple experiments that can be conducted at home.	<ul style="list-style-type: none">➤ http://www.biopics.co.uk/plants/psfac2.html➤ http://www.encyclopedia.com/plants-and-animals/botany/botany-general/chlorophyll



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	<p>dioxide for photosynthesis, using appropriate controls.</p> <ul style="list-style-type: none"> Describe the importance of: <ul style="list-style-type: none"> - Nitrate ions for making amino acids - Magnesium ions for making chlorophyll. 	<ul style="list-style-type: none"> Motivate the students to design a poster to find out how are leaves designed to increase photosynthesis and Research on what do plants do with the glucose made by them. Design a poster displaying how each limiting factor can affect the rate of photosynthesis Motivate your child to go for a walk along with you & identify the plants for any diseases & record the details. 	<ul style="list-style-type: none"> ➤ http://www.webexhibits.org/causesofcolor/7A.html ➤ http://study.com/academy/lesson/how-chlorophyll-absorbs-light-energy.html
<p>Food and Nutrition</p>	<ul style="list-style-type: none"> An understanding of the terms used in nutrition and nutrition-related problems Composition and value of the main foods in the diet- Sources of vitamins and mineral and fat (fruits and 	<ul style="list-style-type: none"> Determine the top benefits of Fats and Oils and Fruits and Vegetables in relation with health stating scientific reasons. 	<ul style="list-style-type: none"> • https://www.eatforhealth.gov.au/food-essentials/five-food-groups • https://www.hsph.harvard.edu/nutritionsource/what-should-you-



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	vegetables, nuts; fats and oils		eat/vegetables-and-fruits/ <ul style="list-style-type: none">• https://www.betterhealth.vic.gov.au/health/healthyliving/fats-and-oils
Economics	<ul style="list-style-type: none">• To analyse how taxes are used by Government to achieve its objectives	<ul style="list-style-type: none">• Research on the two types of taxes Direct & Indirect using examples. Find out the types of taxes levied in UAE.• Research on how Indirect taxes are used to impact consumption of demerit goods , use a graph to emphasize your findings.• What is a negative tax? Explain using examples.• Present your work on using power point presentation.	<ul style="list-style-type: none">• https://www.britannica.com/topic/taxation

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Accounting	<ul style="list-style-type: none"> To record day book entries into ledger accounts 	<ul style="list-style-type: none"> Interview people working in the Accounts Department of any organisation (it could be your own school) Identify the dual function of the cash book as a book of prime (original) entry and as a ledger account for bank and cash. Check with them the concept of Petty Cash Account. Reflect your findings in the form of a class presentation. 	<ul style="list-style-type: none"> www.tutor2u.net www.dineshbakshi.com www.cie.org.uk
Business Studies	<ul style="list-style-type: none"> Business (Private) objectives and Stakeholders objectives To assess the importance of business objectives and how it can satisfy stakeholders objectives as well. How these objectives help business 	<ul style="list-style-type: none"> State and explain PepsiCo VMOSA (Vision, Mission, Objectives, Strategies and Action Plans). Who are the stakeholders in the Company? How are they affected by business activity? (refer Page 56 in Textbook) How will PepsiCo face the conflict of objectives between stakeholders while it is still diversifying its business with retail sector growing steadily? 	<ul style="list-style-type: none"> www.bized.co.uk www.cie.org.uk www.xtermepapers.net www.tutor2n.net Text Book



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	activity/growth in developing and developed countries	<ul style="list-style-type: none"> Show your findings using 3 slides of power point presentation or one-page of write-up with pictures. 	
Travel and Tourism	<ul style="list-style-type: none"> ICT in Travel and Tourism Identify and explain Use of ICT in Travel & Tourism Industry 	<ul style="list-style-type: none"> Collect information from websites and explain how Travel and tourism providers make use of computerised information systems and relevant technology to obtain information. How they provide tourism products & services to customers & how ICT helps in this (World span, Sabre, Galileo, World Wide Web). 	<ul style="list-style-type: none"> www.bized.co.uk Local travel Magazines Textbook www.tutor2u.net
Sociology	<ul style="list-style-type: none"> Family: To examine the dark side of family life 	<ul style="list-style-type: none"> Why is it difficult to get accurate information about the dark side of the family? According to few sociologists, families provide support networks that confer psychological and social benefits no longer provided by other social institutions. Why? Why not? 	https://www.youtube.com/watch?v=FisKm39E7L8&t=105s



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Psychology	Memory- Peterson and Peterson study background	To investigate how different short intervals containing an interference task affect the recall of items presented verbally, and to infer the duration of STM.	<p> Peterson and Peterson: Short Term Memory – Mrs. Eplin's IB Psychology Class Blog (wordpress.com) </p> <p> Duration of Short-term Memory Psychology tutor2u </p> <p> Duration of Short-term Memory Experiment - Peterson and Peterson Simply Psychology </p>
Geography	<ul style="list-style-type: none"> • O S maps 	LO: To analyse and understand the different features of an OS map. Focus: Six figure grid reference. Direction and distance.	<p> https://www.bbc.co.uk/bitesize/guides/zg7jk2p/revision/2 </p>



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		Countours.	
History	<u>League of Nations</u>	<p>How successful was the League in the 1920's?</p> <p>Focus</p> <ul style="list-style-type: none"> • The Aims of the League • Membership of the League • Organization of the League • Border disputes in the 1920's 	Chapter 2 : Secondary: Oxford University Press (oup.com)
Global Perspectives	<ul style="list-style-type: none"> • LAW & CRIMINALITY • GLOBALIZATION 	<ul style="list-style-type: none"> • To examine and anaylse legal and criminal concerns locally, nationally & globally. • To analyze the significance and impact of globalization locally, nationally & globally. 	GLOBAL PERSPECTIVE IGCSE COURSEBOOK



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Environmental Management	Agriculture and the environment	Use various sources to investigate the types of agriculture practiced around UAE. Create a presentation of your choice to show the following: <ul style="list-style-type: none"> • How sustainable agriculture is practiced in UAE • Strategies used by the farmers to increase crop yield in UAE. • The environmental impacts of agriculture in UAE 	https://www.nationsencyclopedia.com/Asia-and-Oceania/United-Arab-Emirates- https://www.moccae.gov.ae/en/knowledge-and-statistics/agricultural-development.aspx https://www.thenationalnews.com/opinion/editorial/the-future-of-farming-may-lie-in-the-uae-desert-1.1082991 https://www.thenationalnews.com/uae/environment/2021/11/07/abu-dhabi-launches-sustainable-agriculture-plan-to-boost-local-farming/
ICT	Topic: EXCEL functions Learning Objective:	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	www.aceit-training.com https://www.youtube.com/watch

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	<ul style="list-style-type: none"> To create spreadsheets using MS EXCEL, and explore different formulas, sort data and format cells To present the data in formatted form, as a properly laid out spreadsheet 	<p>analysing company data such as sales figures, sales taxes or commissions. Help the child to develop a data model, of the finance of your workplace or the finances flow at home.</p> <p>Encourage your child to research on the following:</p> <ul style="list-style-type: none"> Difference between the different types of LOOKUP functions How to use data validation in a spreadsheet Present data <ul style="list-style-type: none"> Enhance data Format cells Adjust rows and columns Conditional formatting Adjust page orientation 	https://www.udemy.com/excel-quickstart/
Computer Science	<p>Topic: Problem Solving</p> <p>Learning Objective:</p>	<ul style="list-style-type: none"> Discuss with your child about ASCII chart to see how different number systems are used to represent the symbols on the keyboard and support them to design pseudocode for the same. 	pseudocode How to write Pseudocode: A beginner's guide by Ngunyi Macharia Medium



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	<p>Able to design pseudocode for given scenarios.</p> <p>Able to explore the importance of ASCII codes.</p> <p>Able to create a pseudocode for converting between base systems.</p>	<ul style="list-style-type: none"> Motivate your child to spend time in developing a pseudocode that can be used to convert between any base system and our decimal number system. Also encourage them to create a report on these algorithms that can be presented and shared with others. 																			
<p>Physical Education</p>	<ul style="list-style-type: none"> To understand the different parts of respiratory system. To understand the structure and functions of respiratory system. 	<ul style="list-style-type: none"> Draw a diagram of respiratory system and label it. <p style="text-align: center;">Complete the table below</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Part of respiratory system</th> <th style="width: 33%;">Structure</th> <th style="width: 33%;">Function</th> </tr> </thead> <tbody> <tr> <td>Lung</td> <td></td> <td></td> </tr> <tr> <td>Alveoli</td> <td></td> <td></td> </tr> <tr> <td>Diaphragm</td> <td></td> <td></td> </tr> <tr> <td>bronchi</td> <td></td> <td></td> </tr> <tr> <td>epiglottis</td> <td></td> <td></td> </tr> </tbody> </table>	Part of respiratory system	Structure	Function	Lung			Alveoli			Diaphragm			bronchi			epiglottis			<p> www.teachpe.com www.britishschoolofboston.org www.cie.org.uk www.innerbody.com www.physicaleducation.co.uk </p>
Part of respiratory system	Structure	Function																			
Lung																					
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epiglottis																					



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		Larynx	
Art	KEY AREA OF LEARNING AO2 AND AO3	Students to TRY a variety of learning experiences, which encourage the development of skills through the use of appropriate media, processes, techniques relevant to the chosen THEME OR SUBJECT.	https://issuu.com/va-da/docs/igcse_assessment_criteria_new www.studentartguide.com
French	<p>A la maison</p> <ul style="list-style-type: none"> To exchange information and opinions about TV programmes To talk about household tasks and offer help around the house <p>To report lost property and describe missing items</p>	<ul style="list-style-type: none"> - SPEAKING : prepare a role play : - Candidat(e): vous-même Professeur: propriétaire d'une maison de vacances, Monsieur/Madame Moreau - Pendant vos vacances en Suisse vous perdez la clé de votre maison de vacances. Vous téléphonez au/à la propriétaire de la maison, Monsieur/Madame Moreau. - 1 (i) Saluez le/la propriétaire; et - (ii) Expliquez la situation. 	www.french-games.net www.quizlet.com www.language-gym.com www.tv5monde.org

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		<ul style="list-style-type: none"> - 2 (i) Dites où vous avez perdu la clé; et - (ii) Dites quand vous avez perdu la clé. - 3 Répondez à la question. - 4 (Le/la propriétaire va venir.) - (i) Faites vos excuses; et - (ii) Proposez de payer pour la clé. - 5 Posez 1 question sur l'heure de son arrivée. 	
Arabic (Arabs)	<p style="text-align: right;">1- قصة مصباح الحمام</p> <p>Learning objectives:</p> <ul style="list-style-type: none"> - أن يحلل النصّ السردّي تحليلاً فكرياً ونقدياً - وبلاغياً. - أن يوضح الفكرة الرئيسة والأفكار الفرعية - أن يستنتج الدلالات التعبيرية - أن يستنتج القيم الواردة بالنص - أن يحلل المغزى من القصة والدلالة عليه - أن يفسر دور المكان في التأثير على العقدة - 	<ul style="list-style-type: none"> - يوضح دلالة عنوان القصة على المضمون - - يقارن بين نصين مستنتجا السمات المختلفة والمتشابهة فيهما - - حدّد القيم الواردة بالنص وناقشها مع مجموعتك - - حلّل النص الأدبي تحليلاً أدبياً - - دلل على فكرة النص من خلال الألفاظ والتراكيب والأساليب - - يحلل القصة إلى عناصرها الفنية - - يحدد استراتيجيات الكاتب في تلك القصة - - يحلل تأثير المكان على تصاعد الأحداث - - يحلل المغزى من القصة مع التدليل عليه من أحداث القصة - 	<p>https://www.youtube.com/watch?v=Y_qMjT1aHVk</p> <p>https://www.youtube.com/watch?v=O_RnbfRFz8A</p> <p>https://www.youtube.com/watch?v=joC0b_4quhc</p>

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	-	<p>يفسر الظاهرة المجتمعية التي تعالجها القصة - يوضح دور الوصف في حبكة القصة مع الأمثلة - يطبق الاستعارة بنوعيتها والكناية من خلال الأمثلة المعطاة -</p>	
Arabic (Non-Arabs)	<p>TOPIC: الطاقة ومصادرها زيارة مدينة مصدر</p> <p>Learning objectives: أن يشرح التلاميذ مصادر الطاقة أن يقارن الطالب بين مصادر الطاقة أن يطرح الطالب حلولاً للحفاظ على الطاقة أن يقدم التلاميذ تقريراً عن زيارة لمدينة مصدر</p>	<ul style="list-style-type: none"> • Students can compare between sources of energy. • Students can create a report about Masdar city. • Students can create videos about energy. • Students can create reports about visit to Masdar city. • 	<p>https://www.youtube.com/watch?v=mAevY1UUB-k</p> <p>https://www.youtube.com/watch?v=z0a8Cz08-OA</p> <p>https://www.youtube.com/watch?v=cmpkrUjAveY</p>
Islamic Education (Arabs)	<p>جمع القرآن الكريم</p> <p>Learning objectives:</p>	<p>يكتب بحثاً عن مراحل جمع القرآن في عهد عثمان بن عفان يكتب تقريراً عن رسم المصحف العثماني</p>	<p>https://www.youtube.com/watch?v=2i2eb9PDxtc</p>



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	أن يقارن بين مراحل الجمع في أبو بكر وعهد عمر بن الخطاب يبدي رأيه في جمع القرآن الكريم-		
Islamic Education (Non Arabs)	TOPIC: Learning objectives: 1. <u>Stages of collection the Quraan</u> - able to explain the stages of collecting AL Quran. -Compare the efforts of Abu Bakr As Siddiq in serving Al Quran to those of Uthman R.A.	1. Write an essay or a journal report about Miracles in Al Quran Al Kareem. Write an essay to a friend convincing him why Muslims believe that Al Quran is not changed unlike previous book	http://bak.whyislam.org/submission/the-holy-quran/arrangement-and-collection-of-the-quran/



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Moral Education	TOPIC: The Development of Entrepreneurship Skills Learning objectives: To develop entrepreneurial skills by producing a plan for a 'business' and making financial decisions based on how the business copes with economic pressures	Explain the following statements: <ul style="list-style-type: none">• Entrepreneurs must be motivators.• Entrepreneurs must be risk takers.• Entrepreneurs must be dreamers	https://www.youtube.com/watch?v=hzoGnCdQadw
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