



Aim High Study Progress Programme Year 10 APRIL 2021

| Area for learning | Focus | Activities | Useful Websites/Apps |
|-------------------------------------|--|---|---|
| English Literature | To focus on the relevance of Macbeth as a play and Shakespeare as a playwright in the 21 st Century | Watch the TED talk provided in the link provided. Watch the trailer of the 2015 movie – Macbeth. Discuss how the movie as a genre in 21st century would be different from the presentation of the same as a drama in Elizabethan times. | https://www.youtube.com/watch ?v=rD5goS69LT4 https://www.youtube.com/watch ?v=YqHhKuCQmoY |
| English 1 st Language | Speech Writing | Watch the famous speeches by Abraham Lincoln, Mother Teresa, Martin Luther King Jr. or any such powerful and inspiring personality. Discuss and present the following information in the form of a brainstorm. Your initial feeling or response after having listened to the speech. The occasion and purpose of the speech. | https://www.artofmanliness.com /2008/08/01/the-35-greatest- speeches-in-history/ https://www.youtube.com/watc h?v=NxHN_JZfEoA |





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| | | A brief on the content of the speech. What makes the speech inspiring and motivating. Identify and state persuasive techniques employed. | <u>https://www.youtube.com/watc</u> <u>h?v=I36Nistc9wE</u> |
|-------------------------------------|---|--|--|
| English 2 nd Language | Reading and Writing Skills | Read newspaper and magazine articles, and a wide range of formal and informal letters. (At least one text every day) Annotate them identifying their tone and register. Also comment on the use of punctuation, vocabulary, complex sentence structures and connectives. | http://www.articleteller.com/how -to-write-an-article http://blog.ezinearticles.com/201 2/09/formal-and-informal-writing- examples.html http://www.tesoltasks.com/Grade 10Revision.htm |
| Mathematics (Additional) | Cumulative frequency curve: To understand and apply concept of cumulative frequency diagram. | Create a group frequency table on the marks your class got for your last math review test. Find median from the table. | http://www.bbc.co.uk/schools/gcse bitesize/maths/statistics/representi ngdata3hirev5.shtml |





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| To construct a cumulative frequency curve for grouped data and to estimate the median and quartiles. | Research on the applications of histograms. Differentiate between histograms and bar charts | https://www.onlinemathlearning.co m/cumulative-frequency-graph.html https://www.mathsisfun.com/data/h |
|---|--|---|
| Histograms: To draw a histogram and interpret it from the given continuous data | Research on box and whisker plot. Create a box and whisker plot, given quartiles and median. | istograms.html https://www.bbc.co.uk/bitesize/guid es/zc7sb82/revision/9 |
| Box and whisker plot To construct box and whisker plot when quartiles are give To read and interpret box an whisker plot | n | https://www.youtube.com/watch?v= z41 PBqYuVg https://www.youtube.com/watch?v= Q2OF86ZUYMs |





| | Stem and Leaf Diagrams Construct and interpret stem and leaf diagrams | www.mathsisfun.com/data/stem- leaf-plots.html www.bbc.com/bitesize/guides/zqym ng8/revision/5 www.bbc.com/bitesize/guides/zvybk qt/revision/7 |
|---------------------------|---|--|
| Mathematics (Extended) | | |





| Mathematics (Core) | | | |
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| Physics | Thin converging Lens Describe the action of a thin converging lens on a beam of light Draw ray diagrams to illustrate the formation of a real image by a single lens Draw ray diagrams to illustrate the | Research on : Create a list of questions you would like to ask your teacher. Frame higher order questions using bloom's taxonomy. Real life applications of lenses Research on: The applications of Electro-magnetic spectrum in the field of crystallography/spectroscopy to study the structure of elements. | https://www.bbc.co.uk/bitesize/guid es/zt7srwx/revision/1 https://www.youtube.com/watch?v =xpcX3B4xE7Q https://www.physicsclassroom.com/ Physics-Interactives/Reflection-and- Mirrors/Optics-Bench/Optics-Bench- Interactive https://www.bbc.co.uk/bitesize/guid es/zdx4t39/revision/3 |





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| | formation of a virtual image by a single lens • Use and describe the use of a single lens as a magnifying glass. | | https://www.youtube.com/watch?v =KCfR_iNsW6k |
|-----------|---|--|---|
| | Dispersion of light Give a qualitative account of the dispersion of light as illustrated by the action on light of a glass prism | | |
| Chemistry | TOPIC 1: ACIDS, BASES AND SALTS Describe neutrality and relative acidity and alkalinity in terms of pH measured using | <u>Hands on activity:</u> Find out the pH value of various household substances by preparing and using cabbage indicator. Fill the Data Sheet attached. | <u>https://www.teachengineeri</u> ng.org/view_activity.php?url =collection/cub_/activities/cu b_air/cub_air_lesson06_activ ity1.xml |











| Describe the characteristic properties of bases as reactions with acids and with ammonium salts and effect on litmus and methyl orange Describe the displacement of ammonia from its salts Describe the meaning of weak and strong acids and bases Classify oxides as either acidic or basic, related to metallic and non-metallic character | (neutralization) as endothermic or exothermic reactions by using substances used in the daily life. Poster making: Prepare a poster showing various reactions of acids and bases in terms of proton or hydroxide donor and proton acceptor Poster must include: Word & balanced symbol equations Descriptions Descriptions | |
|--|---|--|
|--|---|--|





| Biology | Respiration and Gas | Students will make a list of features required for gas <u>http://www.ivyroses.com/Bi</u> |
|---------|---|---|
| | exchange in Humans Gas exchange in Humans | exchange and correlate it with gas exchange system in <u>ogy/Transport/exchange-</u> <u>surface-features.php</u> |
| | • To list the features of gas | plants. • <u>https://youtu.be/D4a-</u> |
| | exchange surfaces. To name and identify the important parts of | Students will create a model of respiratory system using clay, cotton and other craft materials. <u>HOvzmQY</u> <u>http://respiratorysystemfort</u> <u>ewin.weebly.com/specialized</u> |
| | Respiratory system. To differentiate between | Students will recall some of the specialised cells they have <u>cells.html</u> <u>https://youtu.be/Yy7poCBDE</u> |
| | inspiration and expiration | learnt and create a mind map specifying their functions. |
| | in terms of factors.To explain the role of | Students will use lime water as a test for carbon dioxide to <u>http://www.bbc.co.uk/bitesi</u> <u>e/standard/biology/the_bod</u> |
| | specialised cells in the gas | investigate the difference in composition between inspired <u>in action/the need for en</u> |
| | exchange system.To investigate and | and expired air. and expired air. <u>rgy/revision/2/</u> <u>https://youtu.be/sbG6rpfy07</u> |
| | describe the effects of | Students will compare between aerobic and anaerobic <u>https://youtu.be/D-</u> |
| | physical activity on the rate and depth of | respiration using a venn diagram. • <u>https://youtu.be/tddW8Zkya</u> |
| | breathing. | Students will research on the use of anaerobic respiration |
| | Respiration | in terms of biotechnology. • <u>https://youtu.be/nltE8Lz6tR0</u> |
| | | |





| | | tudents will carry out an investigation on uptake of oxygen nd prepare a detailed report on it | <u>https://youtu.be/GjfD55C9v38</u> <u>https://youtu.be/sVTDF6xZMK</u> <u>g</u> |
|-----------------------|--|---|--|
| Food and Nutrition | Principles involved in the different methods of making : Principles involved in the different methods of making – Biscuits, cookies, Flapjack 120g bu 100g da 4 tables | _ | <u>http://www.betterhealth.vic.gov.au/bhcv2/bhcarticles.nsf/pages/Food processing and nutrition</u> <u>https://opentextbc.ca/basickitchenandfoodservicemanage</u> |





| | made by creaming, melting, one- stage, rubbing-in and whisking methods. Pastries – shortcrust, flaky and rough puff. Sauces – pouring and coating; roux and blended methods. Batters – thin (pouring) and coating. Sweet and savoury yeast products | How much of each ingredient would you need to make flapjacks for: 2 people 5 people Extension How much of each ingredient is needed to make flapjack for 9 people? | <u>ment/chapter/convert-and-</u> <u>adjust-recipes-and-formulas/</u> |
|-----------|---|--|--|
| Economics | The role of trade unions | Research about the Industrial dispute that had happened in Hero Honda in Gurgaon(India) in 2006 and evaluate the consequences that the company had to face due to it | https://www.google.com/ http://www.authorstream.com/Pres entation/shrutithejas-1215446-hero- honda-strike-case-final-ppt/ |





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| ACCOUNTING | To recognize the reason for the difference between bank balance as per cash book and pass book To determine correct bank balance as per cash book. | Research on the need of preparing Bank Reconciliation Statement and also Identify the reasons for differences between the cash book balance and the bank statement balance Draw up the format for bank reconciliation Statement. | www.myaccountinglabs.com www.gceguide.com www.cie.org.uk Text book |
|---------------------|--|---|---|
| Business Studies | To explain the economic objectives of government and to understand the business cycle. To explain the ways in which activity might be affected by government economic decisions and how business might respond. | | www.tutor2u.net Newspapers and Magazines Text Book |





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| | | 6. Discuss the role of governemnt in controlling illegal business activities with atleast two countries example . | |
|-----------------------|---|---|--|
| Travel and Tourism | To understand the major influencers in travel industry. Learn how location/ global position, climatic conditions are favourable for this industry. | Dubai as a Tourism Destination: What are the factors that attract tourists to Dubai? How do these factors influence the tourism growth? What is the importance of growing tourism industry in Dubai? You could present your findings as a Report. | <u>The UAE's tourist or visitor guide</u> <u>UAE tourist board's Destination</u> <u>Manual</u> <u>Internet sites, e.g., local</u> <u>attractions and destinations.</u> <u>The Columbus Guide to World</u> <u>Tourist Attractions</u> <u>https://prezi.com/pamxm1oxeot4/d</u> <u>ubai-as-a-tourism-destination/</u> |
| Sociology | Topic: Education Learning Objective: To assess the different levels of achievement by gender, social class, and ethnicity | Suggest 2 reasons why girls overtook boys in educational achievement in the UK in the 1990's? What is meant by cultural capital and why is it important in education? | Cambridge IGCSE Sociology coursebook |





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| | including cultural material and linguistic factors. | | |
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| Psychology | Topic : Neurological damage and its effects. Learning Objective How neurological damage can occur and the wide variety of effects? | Introduction to the problems associated with visual agnosia and prosopagnosia ? The impact of damage to the pre-frontal cortex? Why case studies are used for studying such disorders?: To analyse the impact of neurological damage on human brain | https://www.belmarrahealth.com/vi sual-agnosia-causes-symptoms- diagnosis-treatment/ https://visualagnosia.weebly.com/pr osopagnosia.html https://visualagnosia.weebly.com/pr osopagnosia.html |
| Geography | Topic: Measuring rivers and coasts Lesson objective: To examine the different ways to measure rivers and coasts. | Create a power point to show what are the different ways to measure river velocity, discharge, cross section, gradient, coastal longshore drift and sediment size. | https://igcserevision.wordpress.com /humanities/geography-0460/paper- 4-alternative-to-coursework/ |





| History | Topic : World War IILearning Ojective:To what extend was Hitlerspolicy aims responsible forWW2 | Make a presentation on: How Nazi policies of expansion led to World War II | https://www.youtube.com/watch?v =7kbM F51pc0 |
|------------------------|--|--|---|
| Global Perspectives | INDIVIDUAL REPORT | Choose one topic out of the 8 topics designated for IR. Choose one key issue in the topic: Write a research question Research the issue using reliable sources. Write a report of 1000 words. Make sure it has the following: various perspectives analysis of causes and consequences courses of action analysis of selective sources used -Reflection and conclusion | Various sources chosen by the learner |





| Environmental Management | WATER AND ITS MANAGEMENT | Explore the key issues associated with water and its management globally along with UNSDG#6. Create a short presentation of your choice. | https://www.undp.org/content/und p/en/home/sustainable- development-goals/goal-6-clean- water-and-sanitation.html |
|-----------------------------|--|---|---|
| ICT | TOPIC Computer Networking LEARNING OBJECTIVE Students will be able to analyse various types of network Students will be able to define and illustrate how to configure a small network | Develop a project, as a real life scenario of a company, on Computer Networking, highlighting Network Devices IP and the MAC WiFi Bluetooth Types of internets and networks Network Issues and communications Also discuss and help the child to research on how to set up and configure a small network. Encourage the child to research and read online to get information, but write in their own words after understanding. | https://www.saylor.org//Computer -Networking-Principles-Bonaventure https://www.memorize.com/grade- 10-computer-networking |





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| | Student will be able to list out networking issues. | | |
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| Computer Science | Topic: Logic Circuits Learning Objective: Students will be able to define the functions of NOT, AND, OR, NAND, NOR and XOR (EOR) gates, including the binary output produced from all the possible binary inputs. Students will be able to produce truth tables for given logic circuits. | A logic gate implements a Boolean function and thus performs a logical operation on one or several logic inputs in order to produce a single logic output. A logic gate often uses diodes or transistors that act like electronic switches. The output of one gate can be wired to the inputs of one or more other gates. Encourage your child to design the digital circuit system of the vehicle with two sensors as input. Also ask them to discover the practical use of the circuit. Motivate your child to construct a truth table for the digital circuit system they developed. Discuss with your child about design procedures for designing combinational circuits. | www.youtube.com/watch?v= 76g8E M4DVU www.softpedia.com/get/Others/Ho me-Education/Logic-Gate- Simulator.html |





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| | Students will be able to recognise and use the following standard symbols used to represent logic gates. | Support your child to explore different online applications for developing logic circuits. | |
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| PE | Skill acquisition and psychology Leisure and recreation Growth in leisure activities The sports development pyramid Sponsorship Media Global events Professional and amateur performers Technology | Create a case study for a sport you are interested in, illustrating pathways through the sports development pyramid. Create separate mind maps to summarise the benefits and possible drawbacks of sponsorship for the various parties affected. Add examples. What do you think about hosting global events? Is it something you think your city/country should become involved in? What would be the benefits for your city/county? What possible drawbacks can you see? What kind of events could your country host? | www.bbc.co.uk www.teachpe.com |





| ART | AO2 and AO3 | • To practice in the refinement and development of ideas and personal outcomes. Engaging and experimentation with a range of media, materials | www.studentartguide.com |
|-----|-------------|---|-------------------------|
| | | and techniques, including new media. Exploration of manipulative skills necessary to compose and try interesting outcomes. | |





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| French | • | Topics:My body and my health:> Coin révision A1> Coin révision A2 (1/2)My family and my friends, at home and abroad> Self, family, pets, personal relationships> Ma famille (nom et âge)> Comment sont-ils physiquement?> Les adjectifs possessifs> Comment sont-ils de caractères? | <u>Activities</u> : students go through the different links (practice/exercices) to practice the different topics : <u>Writing :</u> Students to write a text when they needs to : Present and describe yourself with details Present and describe your family with details and pets. <u>Speaking :</u> Students to make a presentation (podcast/video), when they needs to : Present and describe yourself with details Present and describe yourself with details Present and describe yourself with details Present and describe your family with details Present and describe your family with details and pets. Present and describe your family with details and pets. Present and describe your family with details and pets. | Useful links and website : • <u>Vocabulaires :</u> <u>https://www.podcastfrancaisfac</u> <u>ile.com/debutant/se-presenter-</u> <u>en-francais.html</u> <u>https://www.lepointdufle.net/p</u> <u>enseigner/lexique parler de so</u> <u>i-fiches-pedagogiques.htm</u> <u>https://quizlet.com/210392338/</u> <u>7-french-je-me-presente-</u> <u>vocabulaire-flash-cards/</u> <u>https://www.languefr.net/2017</u> <u>/10/vocabulaire-pour-se-</u> <u>presenter-en.html?fullpost</u> • <u>Grammar :</u> |
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| | Les rapports avec les autres | <u>https://www.lepointdufle.net/p/lexique_parler_de_soi.htm</u> <u>https://www.francaisfacile.com/exercices/exercice-francais-2/exercice-francais-40301.php</u> <u>https://www.jerevise.fr/determinant-adjectif-possessif-grammaire.html</u> <u>https://www.francepodcasts.com/2020/06/11/les-adjectifs-possessifs/</u> | https://www.jerevise.fr/determ inant-adjectif-possessif- grammaire.html https://www.francepodcasts.co m/2020/06/11/les-adjectifs- possessifs/ |
|--------|---|--|--|
| Arabic | الاستثناء :TOPIC Learning objectives: * أن يفرق بين أنواع أسلوب الاستثناء . * أن يعرب أسلوب الاستثناء بإلا . | يستخرج أسلوب الاستثناء في الجمل يحدد الطالب إعراب الاسم الاستثناء | https://ar.wikipedia.o https://www.youtube.com/watch? |
| | أن يستخدم أسلوب الاستثناء في التعبير عن المواقف . | يكتب جملاً موظفًا أسلوب الاستثناء | <u>v=aolAU4mpnXE</u> |





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| | TOPIC قصيدة شيخ العرب Learning objectives: أن يفسر المتعلم أبيات النص بإسلوبه. أن يحلل المتعلم النص الشعري تحليلًا نقديًّا. | يستنتج الفكرة الرئيسة والأفكار الفرعية مع ذكر الدليل يوضح مواطن الجمال والأساليب البلاغية وشرح الأبيات يوظف معاني المفردات الجديدة في جمل توضح معناها وفق سياقها في النص | https://www.youtube.com/watch? v=6zwR5V-ts7k |
|---------------------------------|--|---|--|
| Islamic Education (Arabs) | TOPIC: العفة – رعاية الرسول صلى الله عليه وسلم لأهل بيته Learning objectives: يعرف مفهوم العفة يوضح العلاقة بين الاستعفاف والمروءة | يحرص الطالب على حفظ سور الكهف يكتب موضوعاً عن العفة وأثارها على الفرد والمجتمع يكتب موضوعاً عن رعايته صلى الله عليه وسلم لأهل بيته | https://www.youtube.com/watch?v =9ArCNu1TS4w https://www.youtube.com/watch?v =H12YXIkSHKc |





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| | يبين أنواع العفة يذكر نماذج للعفة من القرآن الكريم يحلل أثار العفة الاجتماعية. يقترح قواعد وقائية للعفة يستنتج مقومات حياة الرسول (ص) الزوجية يستنتج مقومات حياة الرسول (ص) الزوجية يستنتج مقومات مياة الرسول (ص) الزوجية يستنتج ملومات مياة الرسول (ص) والتأسي في كل شيئ والتأسي في كل شيئ يستنتج ابرز جوانب المودة والرحمة في تعامله مع زوجاته (ص) | | |
|-------------------------------------|--|--|--|
| Islamic Education (Non Arabs) | TOPIC: Topic : Faith in the Unseen | Write down an essay showing the importance of faith in the unseen and its good effects on believers. | https://www.youtube.com/watch?v =qpp_0AkLW5o&t=183s |





| | Learning objective : Explain the importance of believing in the Unseen. Find evidences of the expansive omniscience of Allah from the holy Qur'an. Mention the benefits of the belief in the unseen. Topic: The Prophet's Method in taking care of his family Explain how the Prophet (PBUH) took care of his family. Highlight the aspects of love and mercifulness in the way the Prophet (PBUH) treated his wives. | Create a video how the prophet use to take care of his family. And how important is the unit of family in societies. | <u>https://www.youtube.com/watch?v</u> <u>=IKzTW6QSgho</u> |
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