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Area for learning	Focus	Activities	Useful Websites/Apps
<b>English 1<sup>st</sup> Language</b>	Language Analysis	<p>Students can select any short story written by Edgar Dellen Poe. They will choose any descriptive paragraph and attempt to write an analysis of the techniques employed by the author and the effect it creates upon the readers.</p> <p>Attempt language Analysis question in the following past papers.</p> <p>0500/12 May/June 2020 and 0500/12 May/June 2021</p>	<a href="https://taughtly.co.uk/resources/how-to-answer-question-2d-language-analysis-for-first-language-english-igcse/">https://taughtly.co.uk/resources/how-to-answer-question-2d-language-analysis-for-first-language-english-igcse/</a>
<b>English Literature</b>	Analysis of narrative elements	<p>Analyse the following elements in the novel studied for Paper 1.</p> <ol style="list-style-type: none"> <li>1. Character development</li> <li>2. Development in themes</li> <li>3. Foil characters</li> <li>4. Tone</li> <li>5. Linguistic choices and their impact</li> </ol>	<a href="https://poemanalysis.com/educational-syllabus/cambridge-igcse-english-literature-0475-2023-24-25/">https://poemanalysis.com/educational-syllabus/cambridge-igcse-english-literature-0475-2023-24-25/</a>



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		6. Symbolism 7. Use of foreshadowing, flashbacks, change in chronological order or stream of consciousness 8. Experimentation in language 9. Sentence construction and its impact 10. Metafictional techniques Plot development towards climax	
<b>Mathematics - Pure mathematics</b>	<b>Functions:</b> <ul style="list-style-type: none"> <li>• Identify the range of a given function and find the composition of two given functions</li> <li>• Illustrate the relation between a one – one function and it's inverse</li> <li>• Understand and use transformations of the graph of <math>y = f(x)</math></li> </ul>	Research on the real life applications of functions.  Make notes on different transformations on the function $y = f(x)$ with examples.	<a href="https://www.intmath.com/functions-and-graphs/2a-domain-and-range.php">https://www.intmath.com/functions-and-graphs/2a-domain-and-range.php</a> <a href="https://mathbitsnotebook.com/Algebra1/Functions/FNDomainRange.html">https://mathbitsnotebook.com/Algebra1/Functions/FNDomainRange.html</a> <a href="https://www.bbc.co.uk/bitesize/guides/z3brdmn/revision/4">https://www.bbc.co.uk/bitesize/guides/z3brdmn/revision/4</a> <a href="https://www.onlinemathlearning.com/function-transformation-hsf-bf3.html">https://www.onlinemathlearning.com/function-transformation-hsf-bf3.html</a>



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<b>Mathematics Extended</b>	<p><b>Inequality Graphs</b>  <b>Learning objective:</b></p> <ul style="list-style-type: none"> <li>Construct, solve and interpret linear inequalities in one and two variables</li> <li>List inequalities that define a given region.</li> </ul> <p><b>Transformation</b>  <b>Learning objective:</b></p> <ul style="list-style-type: none"> <li>Rotate, translate and reflect a given shape</li> <li>Enlarge a shape given a negative scale factor</li> </ul> <p><b>Composite and Dual bar graphs</b>  <b>Learning objective:</b></p>	<p><b>Inequality Graphs</b>  Students might be required to design zones in their city with certain restrictions like: “The shopping mall must be located in the region where <math>y &gt; 2x + 1</math> and <math>y &gt; 2x + 1</math> and <math>y &lt; -x + 4</math> and <math>y &lt; -x + 4</math>.” This allows students to graph multiple inequalities and identify where the solutions overlap. They can shade regions to represent different zones of the city (residential, commercial, parks, etc.).</p> <p><b>Negative Enlargement (Transformation)</b>  Use an interactive tool where students can input a shape and apply transformations with negative scale factors. GeoGebra, for example, allows students to explore negative enlargements dynamically by dragging points and observing how the shape changes. This activity helps students visualize the impact of different negative scale factors in real-time and allows them to experiment freely.</p>	<p><b>Inequality Graphs</b>  <a href="#">Graphing Linear Inequalities Practice</a>  <a href="#">Where are the Stars? Activity by Desmos</a></p> <p><b>Trigonometric Equations</b>  <a href="#">Solving Trig Equations Simulator</a>  <a href="#">Investigating Trig Functions</a></p> <p><b>Composite and Dual bar graphs</b>  <a href="https://www.bargraphmaker.net/double-bar-graph-maker">https://www.bargraphmaker.net/double-bar-graph-maker</a></p>



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	<ul style="list-style-type: none"> <li>• Draw and interpret composite (stacked) and dual (side-by-side) bar charts</li> </ul> <p><b>Trigonometric Equations</b></p> <p><b>Learning objective:</b></p> <ul style="list-style-type: none"> <li>• Recognize, sketch and interpret the sin, cos and tan graphs for <math>0^\circ \leq x \leq 360^\circ</math></li> <li>• Solve trigonometric equations involving sin x, cos x or tan x, for <math>0^\circ \leq x \leq 360^\circ</math></li> </ul>	<p><b>Composite and Dual bar graphs</b></p> <p>Allow students to use the below link to design various composite and dual bar graphs.</p> <p><a href="https://www.bargraphmaker.net/double-bar-graph-maker">https://www.bargraphmaker.net/double-bar-graph-maker</a></p> <p><b>Trigonometric Equations</b></p> <p>Students can use the below simulator to understand how the movement of an angle along the quadrants can be tracked along the wave.</p> <p><a href="https://phet.colorado.edu/sims/html/trig-tour/latest/trig-tour_en.html">https://phet.colorado.edu/sims/html/trig-tour/latest/trig-tour_en.html</a></p>	
<p><b>Statistics</b></p>	<p><b>Processing, representing and analysing data:</b></p> <p><b>Learning Objective:</b></p> <p>To Construct, draw, use and understand Pictograms, Bar charts,</p>	<p>Activity:</p> <p>Daily Routine</p> <p>Students Can Create pictograms to represent data visually, such as tracking how many hours they spend on</p>	<p><a href="https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/4">https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/4</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/1">https://www.bbc.co.uk/bitesize/guides/zy9frwx/revision/1</a></p>

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	<p>Vertical line graphs, stem and leaf, box plots and pie charts. Select the appropriate representation for the data.</p> <p>To Construct, draw, use and understand Frequency polygons, Histograms with equal and unequal class intervals</p>	<p>different activities (e.g., homework, sports, or social media)</p> <p>Class Survey Comparison</p> <p>Conduct a class survey (e.g., favorite hobbies, preferred school subjects) and create bar charts to compare results between categories. Evaluate:</p> <p>Whether the bars effectively show differences between categories, ensuring that the axes are labeled correctly and the bar spacing is consistent. They should assess how easily comparisons can be made between groups.</p>	<p><a href="http://collins.co.uk">10132_ch00_prelims_PB.indd (collins.co.uk)</a></p> <p><a href="https://revisionmaths.com/gcse-maths-revision/statistics-handling-data/cumulative-frequency-graphs">https://revisionmaths.com/gcse-maths-revision/statistics-handling-data/cumulative-frequency-graphs</a></p>
Physics	<p><b><u>Simple kinetic molecular model of matter</u></b></p> <p>State the distinguishing properties of solids, liquids and gases</p> <p>Relate the properties of solids, liquids and gases to the forces and distances</p>	<p>Explain kinetic molecular theory with examples</p>	<p><a href="http://lookgoodandstudyhard.blogspot.com/2015/12/physics-unit-4-simple-kinetic-molecular.html">http://lookgoodandstudyhard.blogspot.com/2015/12/physics-unit-4-simple-kinetic-molecular.html</a></p>



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	between molecules and to the motion of the molecules		<a href="https://courses.lumenlearning.com/boundless-chemistry/chapter/kinetic-molecular-theory-of-matter/">https://courses.lumenlearning.com/boundless-chemistry/chapter/kinetic-molecular-theory-of-matter/</a>
<b>Chemistry</b>	<b>Topics: Fractional Distillation:</b> <ul style="list-style-type: none"><li>To outline the process fractional distillation and mention the uses of their fractions</li></ul> <b>Alkanes:</b> To outline the physical and chemical properties of alkanes.	<ul style="list-style-type: none"><li>Research on how fractional distillation is done for crude oil and list the uses of each fractions.</li><li>Use the simulation link to attempt the quiz questions on fractional distillation of crude oil.</li><li>Design and present an infographic poster to compare and contrast the chemical properties of alkanes using the chemical equations for reactions of alkanes.</li><li>Research on the real-life uses of hydrocarbons.</li></ul>	<a href="https://www.bbc.com/bitesize/guides/zshvw6f/revision/3">https://www.bbc.com/bitesize/guides/zshvw6f/revision/3</a> <a href="https://www.footprints-science.co.uk/index.php?type=Fractional%20distillation">https://www.footprints-science.co.uk/index.php?type=Fractional distillation</a> <a href="https://www.savemyexams.com/igcse/chemistry/cie/23/revision-notes/11-organic-chemistry/11-2-2-organic-families/11-2-2-alkanes/">https://www.savemyexams.com/igcse/chemistry/cie/23/revision-notes/11-organic-chemistry/11-2-2-organic-families/11-2-2-alkanes/</a>



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<b>Biology</b>	<p><b>TOPIC: INHERITENCE</b></p> <p><b>LEARNING OUTCOMES</b></p> <ul style="list-style-type: none"> <li>• Define homozygous and heterozygous allele for a particular gene.</li> <li>• Define dominant and recessive alleles and the way they express.</li> <li>• Interpret pedigree diagrams for the inheritance of a given characteristic</li> <li>• Use genetic diagrams to predict the results of monohybrid crosses and Calculate phenotypic ratios.</li> </ul>	<p><b>Activities:</b></p> <ul style="list-style-type: none"> <li>• <b>Kinesthetic activity:</b> This activity will introduce test crosses and to solidify their understanding of dominant and recessive alleles.</li> <li>• <a href="https://study.com/academy/lesson/monohybrid-dihybrid-cross-activities.html">https://study.com/academy/lesson/monohybrid-dihybrid-cross-activities.html</a></li> <li>• Students can practice problems related to outcomes of monohybrid cross using Punnett square.</li> <li>• <a href="https://sciences.adelaide.edu.au/schools-resources/docs/activity-cattle-genetics.pdf">https://sciences.adelaide.edu.au/schools-resources/docs/activity-cattle-genetics.pdf</a></li> <li>• Research and present studies of Gregor Mendel’s law of Inheritance.</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="https://www.verywellhealth.com/heterozygous-versus-homozygous-4156763">https://www.verywellhealth.com/heterozygous-versus-homozygous-4156763</a></li> <li>• <a href="https://study.com/academy/lesson/dominant-vs-recessive-alleles.html?srltid=AfmBOor1BWLlzd7rv_qhcTSRS-HQx6yAFk1AdZuFleR0KzcooC_ScivQF">https://study.com/academy/lesson/dominant-vs-recessive-alleles.html?srltid=AfmBOor1BWLlzd7rv_qhcTSRS-HQx6yAFk1AdZuFleR0KzcooC_ScivQF</a></li> <li>• <a href="https://byjus.com/biology/difference-between-dominant-and-recessive-traits/">https://byjus.com/biology/difference-between-dominant-and-recessive-traits/</a></li> <li>• <a href="https://byjus.com/biology/pedigree-analysis-family-genetics/">https://byjus.com/biology/pedigree-analysis-family-genetics/</a></li> </ul>
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	<ul style="list-style-type: none"> <li>• Use Punnett squares in crosses to explain co-dominance by reference to the inheritance of ABO blood groups</li> </ul>	<ul style="list-style-type: none"> <li>• Research and present a case study of Hemophilia. Use genetic diagram to explain the process of inheritance.</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="https://www.inheritance/17-1-inheritance-genes-and-cell-division/17-1-8-monoybrid-inheritance/">inheritance/17-1-inheritance-genes-and-cell-division/17-1-8-monoybrid-inheritance/</a></li> <li>• <a href="http://sugarloaf.nbed.nb.ca/sites/sugarloaf.nbed.nb.ca/files/hwattach//y2020/May/punnett_square_practice_worksheet_edited.pdf">http://sugarloaf.nbed.nb.ca/sites/sugarloaf.nbed.nb.ca/files/hwattach//y2020/May/punnett_square_practice_worksheet_edited.pdf</a></li> </ul>
<b>Food and Nutrition</b>	<ul style="list-style-type: none"> <li>• Frozen foods</li> <li>• Herbs and Spices</li> <li>• Left-over Food</li> <li>• Convenience food</li> </ul>	<ul style="list-style-type: none"> <li>• Compare the nutritional information and benefits between Fresh and Frozen food. Note the meals with frozen foods from different countries including UAE.</li> <li>• Note the Origin of Herbs and spices and how is the spice trading down in UAE</li> <li>• Food is something we all take for granted and it is easy to forget how much food we waste. Find how</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="https://www.nestle-family.com/en/article/key-keeping-frozen-food-fresh">https://www.nestle-family.com/en/article/key-keeping-frozen-food-fresh</a></li> <li>• <a href="https://ivaluefood.com/resources/cooking-eating/creative-ways-to-use-leftovers/">https://ivaluefood.com/resources/cooking-eating/creative-ways-to-use-leftovers/</a></li> </ul>



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		<p>much food is wasted in your community and in UAE. Help to combat the Food wastage.</p>	<p><a href="https://www.britannica.com/topic/list-of-herbs-and-spices-2024392">https://www.britannica.com/topic/list-of-herbs-and-spices-2024392</a></p>
<p><b>Economics</b></p>	<p><b>Unit 5</b></p> <p><u>Topic - Economic development</u></p> <ul style="list-style-type: none"> <li>• Comparing living standards and income distribution</li> <li>• Policies to alleviate poverty and redistribute income</li> <li>• The effects of changes in the size and structure of population on different countries</li> <li>• differences in economic development between countries</li> </ul>	<p>Research task and create a powerpoint presentation and share with class:</p> <ul style="list-style-type: none"> <li>• Learners research a specific country and identify reasons for the level of living standards in the country of their choice.</li> <li>• Learners research a specific country and identify reasons for the distribution of income in that country and discuss their findings to analyse a list of the main factors affecting the distribution of income.</li> <li>• Learners explore the extent to which absolute and relative poverty exist in their own country and have either increased or decreased in recent years and make comparisons with other.</li> </ul>	<p><a href="http://www.nationsonline.org/oneworld/least_developed_countries.html">http://www.nationsonline.org/oneworld/least_developed_countries.html</a></p> <p><a href="https://www.ined.fr/en/everything_about_population/population-games">https://www.ined.fr/en/everything_about_population/population-games</a></p> <p><a href="http://www.dailymail.co.uk/news/article-2339523/The-20-necessities-modern-life-simply-live-without.html">http://www.dailymail.co.uk/news/article-2339523/The-20-necessities-modern-life-simply-live-without.html</a></p>



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<b>Accounting</b>	Manufacturing Accounts <ul style="list-style-type: none"><li>• To recognise the purpose of manufacturing</li><li>• To prepare relevant financial statement pertaining to manufacturing businesses.</li></ul>	<ul style="list-style-type: none"><li>• Visit a manufacturing organisation in UAE with your parents, and compare and contrast how a accounts of manufacturing business is different from trading business.</li><li>• Evaluate the financial statements prepared at the end of the financial year.</li></ul>	<a href="http://www.dineshbakshi.com">www.dineshbakshi.com</a> <a href="http://www.cie.org.uk">www.cie.org.uk</a> <a href="http://www.myaccountinglab.com">www.myaccountinglab.com</a>
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<p><b>Business Studies</b></p>	<ul style="list-style-type: none"> <li>To critically assess the ethical implications of outsourcing business functions to countries with lower labour costs, examining the trade-off between job losses in the home country and increased profitability for businesses, especially during economic downturns.</li> </ul>	<p>Many businesses worldwide have outsourced some of their business functions to countries such as India, Philippines, China, Brazil and Costa Rica. This is usually done to reduce costs (because of a cheaper workforce) and increase profitability. The business also benefits from favourable exchange rates with these countries. This loss of local jobs to people in other countries has contributed to increasing unemployment in the home country.</p> <ol style="list-style-type: none"> <li>Businesses argue that during a global recession they need to cut costs to survive and make profits. Analyse the ethical decision between loss of local jobs and growth in profits.</li> <li>Some report say that foreign workers are often paid wages lower than the local minimum wage of the business's own country. Do you think this is ethical?</li> </ol>	<p><a href="https://igcseaid.com/notes/business-studies-0450/6-2-environmental-and-ethical-issues/">https://igcseaid.com/notes/business-studies-0450/6-2-environmental-and-ethical-issues/</a> <a href="https://www.sixelevenbpo.com/blog/exploring-the-best-countries-to-establish-an-outsourcing-business/">https://www.sixelevenbpo.com/blog/exploring-the-best-countries-to-establish-an-outsourcing-business/</a></p>
<p><b>Travel and Tourism</b></p>	<p>To analyse the market analysis tools used in travel and tourism.</p>	<ul style="list-style-type: none"> <li>Select a local tourism organisation learners will be familiar with. In small groups, learners create</li> </ul>	<p><a href="http://www.marketingtutor.net/pestle-analysis-of-the-hotel-industry/">www.marketingtutor.net/pestle-analysis-of-the-hotel-industry/</a></p>



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	To assess the market analysis tools to analyse destinations	<p>PESTLE analysis and/or a SWOT analysis for the organisation.</p> <ul style="list-style-type: none"> <li>Suggest ways that the tourism organisation could manage the issues raised in the PESTLE/SWOT analysis.</li> </ul>	
<b>Sociology</b>	<p>Social Inequality: To assess the different ways of defining and measuring class</p>	<ul style="list-style-type: none"> <li>What are the main reasons for upward mobility within classes</li> </ul>	Sociology course book by Jonathan Blundell
<b>Psychology</b>	Topic : Sleep and dreams	<p><b>Research Project:</b> PPT</p> <ul style="list-style-type: none"> <li>Choose a sleep disorder (e.g., narcolepsy, insomnia) and create a detailed report on its symptoms, causes, and treatments. Include recent research findings.</li> </ul>	



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		<p><b>Sleep Diary:</b></p> <ul style="list-style-type: none"> <li>• Keep a sleep diary for a month. Track your sleep patterns, quality of sleep, and any factors that might affect your sleep (e.g., screen time, caffeine intake). Analyze the data and draw conclusions based on the 5 stages of sleeps (REM and N-REM sleep)</li> </ul>	
<p><b>Geography</b></p>	<p>WEATHER To investigate investigate how weather data is collected and recorded.</p>	<p>Use internet sources and textbook to investigate how weather is measured:</p> <ul style="list-style-type: none"> <li>-weather measuring instruments and how they are used</li> <li>-Advantages of digital equipment over traditional weather instruments</li> <li>-Features of stevenson screen and its location</li> <li>- how to read/interpret Weather charts</li> </ul>	<p><a href="https://youtu.be/RegAdoBD6ec?si=H63iYKQWC78U6YTc">https://youtu.be/RegAdoBD6ec?si=H63iYKQWC78U6YTc</a></p> <p><a href="https://igcsegeography.wordpress.com/revision-materials/weather-climate-ecosystems/">https://igcsegeography.wordpress.com/revision-materials/weather-climate-ecosystems/</a></p> <p><a href="https://www.geographypods.com/1-measuring-weather.html">https://www.geographypods.com/1-measuring-weather.html</a></p>



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		Search for and complete IGCSE Paper 4 past paper questions on the topic as practice for Paper 4- alternative to coursework	
<b>History</b>	How secure was the USSR's control over Eastern Europe, 1948-c.1989? Case study: Hungary (1956) and Czechoslovakia (1968)	<p>1. Colour in a map of Eastern Europe to show the expansion of Soviet control after 1945. Dates and illustrations to be added along with colour coding and a key; discuss the causes of the Hungarian uprising and categorise them on the basis of level of threat to USSR; Discuss 'Why did the Soviet Union feel threatened by events in Czechoslovakia in 1968?' ; mind-map / tabular representation comparing the factors for both the uprisings.</p> <p>2. Construct a table that compares the similarities and differences between each country relating to causes, key players, events and Soviet responses.</p>	<p>1. Textbook</p> <p>2. <a href="http://www.activehistory.co.uk/Miscellaneous/menus/GCSE/decline_collapse_soviet_control_eastern_europe_igcse.htm">www.activehistory.co.uk/Miscellaneous/menus/GCSE/decline_collapse_soviet_control_eastern_europe_igcse.htm</a></p> <p>3. Blank map of Europe in 1945: <a href="http://www.eduplace.com/ss/maps/pdf/eur_countrynl.pdf">www.eduplace.com/ss/maps/pdf/eur_countrynl.pdf</a></p> <p>4. <a href="http://fcit.usf.edu/holocaust/MAPS/map011b.pdf">http://fcit.usf.edu/holocaust/MAPS/map011b.pdf</a></p> <p>5. Hungarian Uprising</p>



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		<p>3. Validate 'How similar were events in Hungary in 1956 and in Czechoslovakia in 1968?' Write an evaluative article.</p> <p>4. To what extent the events in Hungary in 1956 and in Czechoslovakia in 1968 were similar? Justify your answer with arguments and evidence.</p>	<p>information and sources:  <a href="http://www.johndclare.net/cold-war14.htm">www.johndclare.net/cold-war14.htm</a></p> <p>6. Hungarian Uprising information:  <a href="https://www.history.com/this-day-in-history/soviet-put-brutal-end-to-hungarian-revolution">https://www.history.com/this-day-in-history/soviet-put-brutal-end-to-hungarian-revolution</a></p> <p>7. Prague Spring 1968 information:  <a href="http://www.historylearningsite.co.uk/prague-spring-1968.htm">www.historylearningsite.co.uk/prague-spring-1968.htm</a></p>
<b>Environmental Management</b>	<p>1. Revision on “Energy and the Environment”</p> <p>AND</p>	<p>1. Using the internet, you need to find real life examples of the following methods of energy conservation. For each of your examples please state which country it is from, and a description of the method used.</p>	<ul style="list-style-type: none"> <li>- EVM coursebook</li> <li>- <a href="https://www.eia.gov/energyexplained/use-of-energy/efficiency-and-conservation.php#:~:text=">https://www.eia.gov/energyexplained/use-of-energy/efficiency-and-conservation.php#:~:text=</a></li> </ul>



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	<p>2. The Atmosphere and Human Activities: Managing Air Pollution</p>	<ul style="list-style-type: none"><li>- A government policy focussed on energy conservation,</li><li>- A country that uses mostly renewable energy,</li><li>- A sustainable housing technique,</li><li>- A method used to reduce the use of cars.</li></ul> <p>2. Answer to:</p> <p>1.Suggest four reasons why people are concerned about increases in global temperatures.</p> <p>2.Why are international attempts to reduce atmospheric pollution not always successful?</p>	<p><u>=Energy%20conservation%20generally%20include s%20actions,switches%2 C%20is%20a%20conserva tion%20measure.</u></p> <p>- <u><a href="https://www.constellation.com/energy-101/what-is-energy-conservation.html">https://www.constellation.com/energy-101/what-is-energy-conservation.html</a></u></p>
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<b>ICT</b>	Theory: Revision on applications of ICT <ul style="list-style-type: none"><li>• Expert systems</li><li>• Recognition systems</li><li>• Booking systems</li><li>• Computers in medicine</li></ul> Practical: Spreadsheets <ul style="list-style-type: none"><li>• To use vlookup, nested if statements, insert charts in Excel.</li><li>• Use formatting and page set up features in Excel Database:</li><li>• To use queries and reports in Access</li><li>• Perform run time calculations in reports and queries</li></ul>	<ul style="list-style-type: none"><li>• Create presentations and past paper practise. Evaluate the use of online services, expert systems in the real-life context.</li><li>• Assess the ways in which online services are used in our daily lives.</li></ul>	<a href="https://www.igcseict.info/">https://www.igcseict.info/</a>
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<b>Computer Science</b>	Topic: Automated System Learning Objective: <ul style="list-style-type: none"><li>• To describe the advantages and disadvantages of Automated systems</li><li>• To outline various applications of sensors To describe why automated system can log and work effectively than humans</li><li>• To justify how sensors and microprocessors are used in control applications</li></ul>	A company manufactures fizzy drinks that are then labelled and bottled: The system is fully automatic. Sensors are used to ensure the correct amount of each ingredient is added. A stirrer is activated whenever ingredients are added. The bottling plant is again monitored by sensors to ensure the correct amount of drink is added to each bottle, and that the right amount of carbon dioxide gas is added to each bottle. The whole process is computer-controlled and is totally automatic. a. Describe how the sensors, actuators and central computer would be used to monitor and control this bottling plant automatically. You may wish to add/show sensors and actuators in the diagram given above. b. Finally, describe the advantages and disadvantages of fully automating this bottling plant (you can assume that none of the ingredients used in making the drink are harmful)	<a href="https://www.reference.com/world-view/automated-system-c85583d0f17a632">https://www.reference.com/world-view/automated-system-c85583d0f17a632</a>  <a href="https://www.pgonline.co.uk/resources/computer-science/igcse/0478-unit-7-automated-and-emerging-technologies/">https://www.pgonline.co.uk/resources/computer-science/igcse/0478-unit-7-automated-and-emerging-technologies/</a>
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<b>Physical Education</b>	<ul style="list-style-type: none"> <li>• To learn the advantages and disadvantages of sponsorship.</li> <li>• To understand different forms of media.</li> </ul>	<ul style="list-style-type: none"> <li>• List down the names of sponsors for some famous players for any games.</li> <li>• Write down the advantages and disadvantages of sponsorship to the sport and to the performer</li> <li>• Make a list of all sports programmes which are aired on radio in UAE.</li> </ul>	<a href="http://www.teachpe.com">www.teachpe.com</a>  <a href="http://www.britishschoolofboston.org">www.britishschoolofboston.org</a>  <a href="http://www.cie.org.uk">www.cie.org.uk</a>  <a href="http://www.physicaleducation.co.uk">www.physicaleducation.co.uk</a>
<b>Art</b>	<p>AO1 and AO2: Exploring ideas is an ongoing process of reviewing, reflecting and experimenting with different approaches to inform the direction and refinements of your works as it progresses.</p>	<ul style="list-style-type: none"> <li>• To use different possible mediums such as different surface combined with different colour mediums.</li> <li>• The reference images should be primary images (can use the images which are approved earlier or from new images which are approved)</li> <li>• Artist influences such as (compositions, colour pallet, techniques or style) can be combined with your original method of working.</li> </ul>	<a href="http://www.studentartguide.com">www.studentartguide.com</a>



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<b>French</b>	<ul style="list-style-type: none"><li>• Mon futur métier</li><li>• l'informatique au travail</li><li>• Vacances en groupes</li></ul>	<ul style="list-style-type: none"><li>• To prepare a draft about your future career, using complex tenses (subjonctif/ plus-que-parfait)</li><li>• To highlight the importance of technology at work</li><li>• To present a blog about what are the positive and negative points of traveling in groups</li></ul>	<a href="https://lirebien.com/2023/10/production-ecrite-sur-mon-metier-de-reves.html#gsc.tab=0">https://lirebien.com/2023/10/production-ecrite-sur-mon-metier-de-reves.html#gsc.tab=0</a> <a href="https://www.genie-inc.com/conseils-carriere/technologies/la-technologie-au-bureau-ses-avantages-et-inconvenients#:~:text=La%20technologie%20permet%20une%20meilleure%20gestion,'avancement%20d'un%20projet.">https://www.genie-inc.com/conseils-carriere/technologies/la-technologie-au-bureau-ses-avantages-et-inconvenients#:~:text=La%20technologie%20permet%20une%20meilleure%20gestion,'avancement%20d'un%20projet.</a> <a href="https://www.deltour.com/voyages-groupes-avantages-inconvenients/">https://www.deltour.com/voyages-groupes-avantages-inconvenients/</a>
<b>Islamic Education Arabs</b>	القرآن العظيم والإعجاز العلمي <ul style="list-style-type: none"><li>• توضيح مفهوم الإعجاز العلمي</li><li>• مقارنة الإعجاز العلمي بالتفسير العلمي</li></ul>	اكتب مقالاً أو تقريراً في مجلة عن الإعجاز في القرآن الكريم.	<a href="https://themuslimvibe.com/fait-h-islam/13-scientific-facts-in-the-holy-quran">https://themuslimvibe.com/fait-h-islam/13-scientific-facts-in-the-holy-quran</a>

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	<ul style="list-style-type: none"> <li>تقييم أهمية الإعجاز العلمي</li> </ul>	أعد بحثاً عن العلماء المسلمين واكتشافاتهم	<a href="https://www.famousscientists.org/famous-muslim-arab-persian-scientists-and-their-inventions/">https://www.famousscientists.org/famous-muslim-arab-persian-scientists-and-their-inventions/</a>
Arabic (Arabs)	<p><b>TOPIC:</b></p> <p>قصة نظارة طبية</p> <p><b>Learning objectives:</b></p> <p>أن يحدد الطالب دلالة عنوان القصة مدعماً رأيه بالأدلة</p> <p>أن يشرح ارتباط العنوان بمدلول القصة ويذكر الأدلة من النص</p>	<p>يحدد دلالة عنوان القصة مدعماً رأيه بالأدلة</p> <p>يشرح ارتباط العنوان بمدلول القصة ويذكر الأدلة من النص</p> <p>يميز العبارات التي ساهمت في إظهار مشاعر الشخصيات</p> <p>أن يحلل تطور وجهة نظر الراوي في القصة</p>	<a href="https://www.uae-study.com/2020/07/Solve-lesson-look-outside-window-grade-12.html">https://www.uae-study.com/2020/07/Solve-lesson-look-outside-window-grade-12.html</a>

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	<p>أن يميز العبارات التي ساهمت في إظهار مشاعر الشخصيات.</p> <p>أن يحلل الطالب تطور وجهة نظر الراوي في القصة.</p>		
Islamic Education	<p>1. <b><u>The Holy Quran and the Scientific Miracles</u></b></p> <p>- To elucidate the concept of scientific miracles</p> <p>To compare scientific miracles to scientific exposition</p> <p>-To evaluate the importance of scientific miracles</p>	<ol style="list-style-type: none"> <li>1. Write an essay or a journal report about Miracles in Al Quran Al Kareem.</li> <li>2. Prepare research on Muslim scientists and their discoveries</li> </ol>	<p><a href="https://themuslimvibe.com/fait-h-islam/13-scientific-facts-in-the-holy-quran">https://themuslimvibe.com/fait-h-islam/13-scientific-facts-in-the-holy-quran</a></p> <p><a href="https://www.famousscientists.org/famous-muslim-arab-persian-scientists-and-their-inventions/">https://www.famousscientists.org/famous-muslim-arab-persian-scientists-and-their-inventions/</a></p>



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<b>Moral Education</b>	Topic- What are the Consequences of Not Living a Moderate Life Learning Objective- <ul style="list-style-type: none"><li>• To outline at least three examples of leading a life of excess.</li><li>• To describe at least five ways of improving a sedentary lifestyle.</li></ul>	Activities: Encourage a family discussion on the consequences of eating and drinking healthy compared to eating and drinking unhealthy.	<a href="https://www.netmeds.com/health-library/post/junk-food-vs-healthy-food-advantages-disadvantages-and-healthier-food-choices?srsId=AfmBOosgSxtCHG7nwZi0TSwe888KdjceFAEq8QUI8kdJJYiRjJla0Y6">https://www.netmeds.com/health-library/post/junk-food-vs-healthy-food-advantages-disadvantages-and-healthier-food-choices?srsId=AfmBOosgSxtCHG7nwZi0TSwe888KdjceFAEq8QUI8kdJJYiRjJla0Y6</a>
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<b>PSHCEE</b>	Topic- Bullying Learning Objective- To explore the differences between bullying and teasing	Activities: Encourage a family discussion on the consequences of bullying and the ways to stop it.	<a href="https://www.unicef.org/parenting/child-care/bullying">https://www.unicef.org/parenting/child-care/bullying</a>
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