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Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	<u>DESCRIPTIVE / NARRATIVE WRITING</u> To be able to practice the various skills that are needed for the IGCSE exam	<ul style="list-style-type: none">• Watch the movie A beautiful mind and attempt the following.• Write a descriptive piece on any one scene of your choice.• Write a narrative piece by changing any one act of the movie Imagine that you are Russell Ira Crowe, write an interview based on your experience during the making of the movie	http://vimeo.co/movies/1473-a-beautiful-mind-2001.html
English 2 nd Language	<ul style="list-style-type: none">• Reading Comprehension• Article Writing	<ul style="list-style-type: none">• Encourage your child to read any article from a newspaper or magazine. Ask them to write a summary of 100 words picking out the key points from the article.• Have a discussion with your child on the topic and get him/her to research using the internet. Discuss with your child the precise vocabulary and terms needed to write the article on Expo 2020• Ask your child to write an article on Expo 2020 and its effects on the tourism in UAE *Encourage them to make a power point presentation on the same topic. This will help them focus on the points needed to write the article.	www.gulfnews.com www.englishforeveryone.org



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English Literature	To comprehend the literary background of writers from Australia and New Zealand.	<p><u>Research on the following:</u></p> <ul style="list-style-type: none">• Aboriginals and Maoris – their history and cultural practices.• The original inhabitants of Australia and New Zealand.• The early settlers of Australia and New Zealand.• The suppression and repression of the natives.• The current status of the natives in Australia and New Zealand	<ul style="list-style-type: none">• https://history.stackexchange.com/questions/19256/did-the-aborigines-of-australia-and-the-maoris-in-new-zealand-know-about-each-other• https://www.economist.com/international/2018/12/01/why-new-zealands-maori-do-better-than-australias-aboriginals• https://en.wikipedia.org/wiki/M%C4%81ori_people <p>https://en.wikipedia.org/wiki/Indigenous_Australians</p>
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Additional Mathematics	<p><u>Integration:</u></p> <p>Learning Objectives:</p> <ul style="list-style-type: none">• To understand the term indefinite integral and the need to add the constant of integration.• To integrate functions which can be expressed as sums of powers of x• To evaluate a definite integral• To use definite integrals to find area under the curve• To find volume of a revolution about either X or Y axis.	<p>Apply the basic integration rules in finding the function, given it's derivative. Can you get more than one function when you integrate? Why? Research on the significance of constant of integration.</p> <p>Research on the real life applications of integration.</p> <p>Make notes to summarize learning that includes solved examples.</p>	<p>https://www.mathsisfun.com/calculus/integration-introduction.html</p> <p>https://www.bbc.com/bitesize/guides/zgxttfr/revision/1</p> <p>https://revisionmaths.com/advanced-level-maths-revision/pure-maths/calculus/integration</p>
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<p>Mathematics Core</p>	<p><u>Number</u> Number facts- LCM, HCF, Rational and irrational numbers</p> <p>Percentage increase and decrease</p> <p>BODMAS rule in fractions Ratio and Proportion</p> <p><u>Algebra</u> Word problems based on linear equations Solve linear inequalities and listing the values for the given inequalities.</p> <p><u>Graphs</u> Plotting and drawing straight line graphs. Gradient and equation of straight line Travel graphs</p>	<p>•Research on the real-life application of Bounds like population data, Engineering etc. How are bounds set for values? Prepare a booklet with all the formulas with the different strands that will help them in the examination.</p>	<p>https://mr-mathematics.com/equation-of-straight-line-graphs/</p> <p>https://www.onlinemathlearning.com/ratio-problems.html</p> <p>https://www.math-only-math.com/worksheet-on-word-problems-on-hcf-and-lcm.html</p> <p>https://mathsmadeeasy.co.uk/gcse-maths-revision/upper-and-lower-bounds-worksheets-revision/</p> <p>https://corbettmaths.com/2019/09/02/increasing-decreasing-by-a-percentage-practice-questions/</p>
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	<p>Then plotting the value for x on graph.</p> <p>Shape and Space Angle properties, Angles on parallel lines.</p>		
<p>Mathematics (Extended)</p>	<p><u>Box and Whisker Plot</u></p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> To construct Stem and Leaf diagram Analyse the data set and compute the minimum, lower quartile, upper quartile and the maximum of a given data set. To interpret the box and whiskers diagram <p><u>Transformation</u></p>	<ul style="list-style-type: none"> Research on the applications of box and whisker plot in the real world. List the steps of how you solve a box and whisker plot problem Activity: Ask members of your family to make paper aero planes with their name on it and throw it at a distance. Measure the distance, collect the data and create a box and a whisker plot and then calculate the median, upper and lower quartile and interquartile range. Create interactive foldable notes(lapbook) on transformations Create a transformation of Logos of cars seen in UAE. Research and explore the effects of applying various transformations to a shape 	<p> https://www.examsolutions.net/tutorials/exam-questions-box-whisker-plots/ https://www.youtube.com/watch?v=IPfold9ieSU https://www.examsolutions.net/tutorials/box-whisker-plots/ https://mathsmadeeasy.co.uk/gcse-maths-revision/box-plots-gcse-revision-and-worksheets/ </p> <p> https://www.youtube.com/watch?v=k8VimF7I5LI </p>



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	<p>Learning Objectives:</p> <ul style="list-style-type: none"> • Reflect, rotate, translate and enlarge shapes • Describe the transformations given the object and image • Perform different transformations on an object • Do the inverse of a transformation 	<ul style="list-style-type: none"> • a reflection puzzle. The left sandal is reflected across a line drawn between two points in the grid to make a right sandal. Can you move A and B to find the line of reflection? <p>Play golf using transformation using mobile or PC's. Try to get the golf ball into the hole with the least number of moves.</p>	<p>https://www.youtube.com/watch?v=VKiMAV2N2Qg https://www.youtube.com/watch?v=u6iFS6ul4_w https://mathsmadeeasy.co.uk/gcse-maths-revision/transformations-gcse-revision-and-worksheets/ https://www.onlinemathlearning.com/transformation-games.html</p>
<p>Physics</p>	<p><u>THERMAL PROCESSES</u></p> <ul style="list-style-type: none"> • Conduction Describe experiments to demonstrate the properties of good and bad thermal conductors Supplement • Give a 	<p>Research on</p> <ul style="list-style-type: none"> • A simple molecular account of conduction in solids including lattice vibration and transfer by electrons • Study on amount of radiation emitted also depends on the surface temperature and surface area of a body <p>Practice questions from https://www.physicsandmathstutor.com/physics-revision/igcse-cie/thermal-physics/</p>	<ul style="list-style-type: none"> • www.skool.co.uk • www.islandphysics.com • www.cie.org.uk • https://www.teachengineering.org/activities/view/cub_solar_lesson02_activity1



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	<p>simple molecular account of conduction in solids including lattice vibration and transfer by electrons</p> <p>Convection</p> <ul style="list-style-type: none">• Recognise convection as an important method of thermal transfer in fluids• Relate convection in fluids to density changes and describe experiments to illustrate convection <p>Radiation :</p> <p>Identify infra-red radiation as part of the electromagnetic spectrum</p> <ul style="list-style-type: none">• Recognise that thermal energy transfer by		<ul style="list-style-type: none">• https://www.physicsclassroom.com/class/thermalP/Lesson-1/Methods-of-Heat-Transfer
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	<p>radiation does not require a medium</p> <ul style="list-style-type: none"> Describe the effect of surface colour (black or white) and texture (dull or shiny) on the emission, absorption and reflection of radiation 		
Chemistry	<p>Topics: Carboxylic acids and Polymers:</p> <ul style="list-style-type: none"> To enlist the uses of polymers. To explore, compare and contrast the types of polymerization with examples To discuss and justify that polymers are the necessary evils to humans. 	<ul style="list-style-type: none"> Activity 1: Research to compare synthetic and natural polymers. Use Piktochart. Activity 2: Make a flow chart to compare condensation and additional polymerization. Mention their uses. Use Piktochart/Canvas. Activity 3: Design and present an infographic poster using CANAVA / Glogster discussing that polymers are the necessary evils to humans. 	<p>Useful website:</p> <ul style="list-style-type: none"> https://www.youtube.com/watch?v=-d14DmSBuAQ https://www.youtube.com/watch?v=VKmdYYPexbs https://www.youtube.com/watch?v=LWxoDV-LI8k

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Biology	<p><u>INHERITENCE</u></p> <p>Define homozygous and heterozygous allele for a particular gene.</p> <ul style="list-style-type: none"> • Define dominant and recessive alleles and the way they express. • Interpret pedigree diagrams for the inheritance of a given characteristic • Use genetic diagrams to predict the results of monohybrid crosses and Calculate phenotypic ratios. • Use Punnett squares in crosses to explain co-dominance by 	<p><u>INHERITENCE</u></p> <ul style="list-style-type: none"> • <u>Kinesthetic activity:</u> This activity will introduce test crosses and to solidify their understanding of dominant and recessive alleles. • https://study.com/academy/lesson/monohybrid-dihybrid-cross-activities.html • Students can practice problems related to outcomes of monohybrid cross using Punnett square. • https://sciences.adelaide.edu.au/schools-resources/docs/activity-cattle-genetics.pdf • Research and present studies of Gregor Mendel's law of Inheritance. • Research and present a case study of Hemophilia. Use genetic diagram to explain the process of inheritance . 	<p><u>INHERITENCE</u></p> <ul style="list-style-type: none"> • https://www.youtube.com/watch?v=bGiKRD5QHkI • https://www.youtube.com/watch?v=G6e6wpNP7FU • https://www.youtube.com/watch?v=EYYc7z4yX38 • https://www.youtube.com/watch?v=nykVH9Z7Gw8 • https://www.youtube.com/watch?v=DxClrv2q_Cc • https://www.youtube.com/watch?v=h2xufrHWG3E • https://www.youtube.com/watch?v=Gd09V2AkZv4
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	<p>reference to the inheritance of ABO blood groups</p> <ul style="list-style-type: none"> • Define a <i>sex-linked characteristic</i> as a characteristic in which the gene responsible is located on a sex chromosome and makes it more common in one sex than in the Other. Eg: colour blindness 		
<p>Food and Nutrition</p>	<p>Revision of all topics in the syllabus.</p>	<ul style="list-style-type: none"> • An understanding of the terms used in nutrition and nutrition-related problems • Nutritive value of foods • Digestion and absorption • Meal planning and dietary guidelines • Composition and value of the main foods in the diet • Cooking of food • Convenience foods • Basic proportions and methods of making 	<ul style="list-style-type: none"> • http://www.eatingwell.com/category/4287/meal-planning-101/ • http://youtu.be/S12zZhdOckc • bit.ly/use-by-or-best-before • http://practicalaction.org/technical-briefs-schools-food



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		<ul style="list-style-type: none"> • Raising agents • Food spoilage and hygiene in the handling and storage of food • Food preservation • Kitchen planning • Kitchen equipment • Kitchen safety, simple first aid 	<ul style="list-style-type: none"> • practicalaction.org/zeer-pot-fridge • http://youtu.be/ZNKifJHqSc • practicalaction.org/solar-drying-2 • https://greatist.com/eat/ultimate-list-kitchen-tools-healthy-cooking
<p>Economics</p>	<p>To analyse the differences in the population structure of developed vs developing countries. To discuss the reasons for different rates of growth of population in different countries and its impact</p>	<ul style="list-style-type: none"> • Research on the population structures of the developed vs developing countries and analyse the reasons for the differences and its implications. • Discuss the causes of different rates of growth of population and analyse the reasons thereof and its impact. • Present your findings as a Near pod lesson /sway presentation or Prezi. You could work in groups of 4 or 5 and will need to present before the Class. 	<ul style="list-style-type: none"> • www.bized.co.uk • www.tutor2u.net • www.dineshbakshi.com • Newspapers and Magazines <p><u>Text Book</u></p>



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		<p>OR</p> <ul style="list-style-type: none"> • Prepare for a Class discussion /debate on the topic: • “Population explosion in the coming years will spell the doom for both the economies as well as the environment.” 	
<p>Accounting</p>	<p>Analysis and Interpretation- To interpret and calculate the profitability, liquidity and efficiency ratios to carry out inter-firm comparisons.</p>	<p>Calculate and analyse the performance of any two businesses in Dubai based on their profitability and liquidity ratios. You are required to calculate the following ratios –</p> <ol style="list-style-type: none"> 1. GP ratio 2. NP ratio 3. ROCE 4. Current ratio 5. Acid test ratio 6. Stock turnover in days 7. Debtors turnover in days 8. Creditors turnover in days 	<p> www.bized.co.uk www.cie.org.uk www.xtermepapers.net www.tutor2n.net Text Book </p>

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		<ul style="list-style-type: none"> • Present your findings in a tabular format showing the values of each ratio calculated for the selected firms. • Present in a report form, the interpretation and comparisons of the ratios for the selected firms. 	
Business Studies	<p>Unit-2 Recruitment, selection and training of workers</p> <p>To analyse the importance of training and the different types of training.</p> <p>To evaluate the relevance of training to both the management and the employee.</p>	<p>Read the end of section case study on papers 128,129 and answer questions 1 and 2.</p>	<p> www.bized.co.uk www.cie.org.uk www.xtermepapers.net www.tutor2n.net </p> <ul style="list-style-type: none"> • Text Book
Travel and Tourism	<p>1. Understand PRODUCT as a part of the Marketing Mix</p>	<ul style="list-style-type: none"> • Explain the stages in PLC. Also show the diagrammatical representation of the same. How do you develop a product portfolio in Travel industry? 	<ul style="list-style-type: none"> • Internet • International tourism providers • Textbook

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	2. Understanding PRICE as a part of Marketing Mix	<ul style="list-style-type: none"> Investigate a range of common pricing policies used in travel and tourism industry. ✓ Explain all the Pricing Strategies 	<ul style="list-style-type: none"> International tourism sites for booking
Sociology	Topic: Social Mobility Learning Objective: To evaluate the term social mobility	Describe two ways in which individuals can achieve upward social mobility. To what extent do women still face discrimination in some types of employment?	IGCSE SOCIOLOGY Textbook
Psychology	Topic: Freud's Little Hans Study Learning Objective: To evaluate the background aim and procedure of the study	Little Hans(1909)study: This is a case study, It is often easier to describe as case history, case method, result and conclusion. Evaluate the study using its strength and weaknesses	Pearsons GCSE Edexcel Psychology Textbook
Geography	Topic: Development Learning Objective: Analyse the reasons for the difference in the level of development between different countries	Practise on Past IGCSE papers	Xtreme Papers
History	Topic: Why did Stalin, and not Trotsky, emerge as Lenin's successor?	Learners take part in a Trotsky versus Stalin debate. This could be done as hot seating exercise.	Information and sources on Stalin assuming power in the USSR: www.johndclare.net/Russ9.htm

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	Learning Objective: To analyse the reasons why Stalin emerged as the successor of Lenin	Learners produce a timeline of the Trotsky versus Stalin debate up to Stalin's ascension to power in the party. Higher ability learners may want to demonstrate the shifting political views of Stalin on this timeline. Learners research the main ideas of Stalinism and create a whole class diagram.	Stalin and Trotsky fight for power: www.bbc.co.uk/schools/gcsebites/ize/history/mwh/russia/stalinstakeoverofpowerrev1.shtml
Global Perspectives	Team project	<p>Collaborate with 2-4 other students to complete 1 Team project.</p> <ul style="list-style-type: none"> Choose a topic from any one topic from the topics designated for IGCSE GP 0457 Team project. Choose one issue as your project title Research the issue globally with greater focus on cultural perspectives <p>Present the issue in any one suitable project outcome e.g. video/short film, webpage, song, poster etc.</p>	Students choose their own sources for research.
Environmental Management	Natural Ecosystems and Human activity	<ol style="list-style-type: none"> Use different suitable sources to investigate Ecosystems. <ul style="list-style-type: none"> Describe the techniques of estimating biodiversity in ecosystems Investigate the causes and impacts of habitat loss. Discuss the need for biodiversity conservation. Investigate the causes and impacts of deforestation <p>Discuss and evaluate the strategies for conserving biodiversity and genetic resources of natural ecosystems.</p>	https://ecampusontario.pressbooks.pub/environmentalscience/chapter/chapter-1 https://en.unesco.org/themes/geology-ecosystems-and-biodiversity



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			https://wwf.panda.org/discover/our_focus/forests_practice/deforestation_causes2/
ICT	<p>Topic: Theory</p> <ul style="list-style-type: none"> • Networks • Network issues and Communication <p>Topic: Practical</p> <p>Microsoft Expression</p> <ul style="list-style-type: none"> • Create CSS Styles • Create HTML pages 	<p>Students to create Presentations and videos on</p> <ul style="list-style-type: none"> • Types of Networks • Network devices • Networking Hardware and Issues associated with Networks <p>Practical: To solve past papers</p> <ul style="list-style-type: none"> • Create Webpage and CSS styles • Insert Hyperlinks , Book marks and Tables in a webpage. 	<p>www.igcseict.info</p> <p>www.ictlounge.com</p>
Computer Science	<p>Topic: Security and ethics</p> <p>Learning Objective:</p> <ul style="list-style-type: none"> • To examine the need to keep data safe from 	<p>➤ Imagine your child have been employed as the Cyber Security Advisor for a local business. Encourage your child to create a user guide or infographic to help staff understand what security</p>	<p>Importance of Password Security Tips for Protecting Your Accounts (highspeedtraining.co.uk)</p>



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	<p>accidental damage, including corruption and human errors.</p> <ul style="list-style-type: none"> To infer the need to keep data safe from unauthorised viewing, deleting, copying and corruption. 	<p>measures are and why they should use them to prevent cyber security threats. Include images to support your explanations.</p> <ul style="list-style-type: none"> ➤ Support your child to link to a game about cyber security from the link given. ➤ Motivate your child to create a video on cyber security. ➤ Encourage your child to do research on importance of strong passwords and firewalls. <ul style="list-style-type: none"> Encourage your child to create a report for different forms of malware. Support child to add notes about preventing the form of malware and find images to represent each section of malware. 	
Physical Education	<ul style="list-style-type: none"> All topics(revision) 	<ul style="list-style-type: none"> Complete the October/November (0413/11) and 0413/2 past question paper and bring it to the class for discussion. 	www.teachpe.com www.britishschoolofboston.org www.cie.org.uk
Art	<ul style="list-style-type: none"> All AO's 	<ul style="list-style-type: none"> Portfolio that reflects confidence, enthusiasm and a sense of achievement in the practice of art and design. 	www.studentartguide.com
French	To practice the skills that are needed for the IGCSE exam:	<p>LISTENING AND READING COMPREHENSION :practice with a variety of activities on http://parlons-francais.tv5monde.com/webdocumentaires-pour-apprendre-le-francais/p-1-lq0-Accueil.htm</p>	http://apprendre.tv5monde.com/ http://nosgustalafrance.blogspot.ae/



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	<ul style="list-style-type: none">• writing an informal text(making complex sentences with a range of connectives and variety of grammatical structures,• reading comprehension• listening comprehension <p>vocabulary building; using reference materials to extend range of language and improve the accuracy</p>	<p>READING : read daily a short article on http://www.readmetro.com/en/france/paris/</p> <p>- VOCABULARY : revise the main vocabulary themes with http://quizlet.com/subject/FRENCH-IGCSE/; make your own lists of vocabulary on www.quizlet.com</p>	<p>http://www.hellomylo.com/Challenge/French</p> <p>www.francaisfacile.com</p>
Arabic (Arabs)	<p>TOPIC الكناية</p> <p>Learning objectives:</p> <p>أن يحدد الطالب الكناية</p> <p>أن يوظف الطالب الكناية</p>	<p>مناقشة حوار حول الاستعارة والدخول منها الى موضوع الدرس</p> <p>يوظف الطالب الكناية</p> <p>يقارن بين نصين من حيث الأفكار والأسلوب</p>	<p>youtube.com/watch?v=B4qCo9iBb-s</p> <p>https://www.albayan.ae/opinions/articles/2016-05-04-1.2631927</p>

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	<p>TOPIC القراءة المثمرة</p> <p>Learning objectives:</p> <p>أن يذكر الطالب الفكرة العامة للنص أن يحدد الطالب الأفكار الفرعية ويذكر الدليل</p> <p>TOPIC أسلوب الاختصاص</p> <p>Learning objectives:</p> <p>أن يوظف الطالب أسلوب الاختصاص أن يعرب الطالب أسلوب الاختصاص</p>	<p>يذكر الفكرة العامة للنص ويحدد الأفكار الفرعية ويذكر الدليل .</p> <p>يوظف أسلوب الاختصاص في فقرة يعرب أسلوب الاختصاص</p>	<p>https://ar.wikipedia.org/w</p>
<p>Islamic Education (Arabs)</p>	<p>TOPIC:</p> <p>1. Emulating Allah's Messenger(PBUH) Surat Al Ahzab (21-27)</p>	<p>1. In one or two paragraphs describe the background of the ayah and explain the meaning of the ayah and how would they help you in your life.</p> <p>2. Search and write a report on the national projects in the field of reinforcing and protecting the family and its members.</p>	<p>https://www.youtube.com/watch?v=YU87qBdkMVU</p>



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	<p>Students will be able to:</p> <ol style="list-style-type: none">1. To recite the ayah and interpret their meanings in their own words2. Infer some provisions from the verses.3. Indicate the significance and the background of the ayah. <p>2. The Methodology of Islam in Family Building</p> <ul style="list-style-type: none">• To explain the importance of family in Islam.• Explain the aspects of care for the family in Islam• Identify the functions of the family in Islam.		
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<p>Islamic Education (Non Arabs)</p>	<p>TOPIC: آداب الحوار – مصادر – التشريع في الإسلام.</p> <p>Learning objectives:</p> <p>أن يستنتج آداب الحوار في الإسلام . 2- أن يعدد فوائد وآداب الاستماع وحسن الإصغاء . 3- أن يحدد صفات صفات المحاور الجيد في الإسلام .</p> <p>أن يوضح حجبة السنة</p>	<p>يكتب موضوعا عن صفات المحاور في الإسلام . يكتب بحثا عن منهجية الحوار في الإسلام . يكتب بحثا عن حجبة السنة النبوية .</p> <p>يكتب بحثا عن مصادر (القياس – الاجتهاد).</p>	<p>https://www.youtube.com/watch?v=doaNqne9IZ4</p> <p>https://www.youtube.com/watch?v=dkr9HRY2bF4</p>
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Moral Education	Intercultural Relationships	<ul style="list-style-type: none">• Differentiate visible and invisible culture.• Explain how culture shape the way we see ourselves, others and the world.• Discuss why some people are not interested in other people's culture.• Give examples of culture complexes and traits of the UAE.• Identify examples of high and low contexts of verbal and non-verbal communication.• Exploring the challenges of intercultural communication.	https://www.khaleejtimes.com/news/general/uae-a-country-where-cultures-meet
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