



Aim High Study Progress Programme
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Area for learning	Focus	Activities	Useful Websites/Apps
English 1 st Language	<ul style="list-style-type: none">Summary Writing	<ul style="list-style-type: none">Follow the link mentioned to understand the summary writing tips.Read any article on science and technology from any leading newspaper and attempt to summarize the key points	<p>https://henriksenenglish.wikispaces.com/file/view/Examiner+Tips.pdf</p> <p>http://gulfnews.com/</p> <p>https://www.khaleejtimes.com/</p>
English 2 nd Language	<ul style="list-style-type: none">Writing Skills	<ul style="list-style-type: none">Read newspaper and magazine articlesRead samples of formal and informal lettersAnnotate the articles and letters to identify the use of a range of punctuation, vocabulary, connectives, complex sentence structures and variation in the length and structure of the sentences	<p>http://www.wikihow.com/Write-an-Article-for-Your-School-Newspaper</p> <p>http://www.wikihow.com/Write-a-Magazine-Article</p> <p>http://www.writesmart.com.au/pages/articles.php</p>



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		<ul style="list-style-type: none">• Summarize the newspaper and magazine articles in your own words• Indulge in conversation on the current events, sports, movies or topics of your choice with your parents, friends, relatives and sometimes with strangers as well. Listen to their ideas, incorporate their ideas, add your own ideas and write articles or letters on these topics.	<p>http://www.criminology.fsu.edu/penology/samplenewspaperarticles.htm</p> <p>http://www.rcampus.com/rubricshowc.cfm?sp=true&code=U397CW&</p> <p>http://volweb.utk.edu/Schools/bedford/harrisms/letterubric.htm</p>
English Literature	<ul style="list-style-type: none">• Comparing short stories with the novel being read in class	<ul style="list-style-type: none">• Analyse short stories in the given link and compare them with the novel you are reading in class.• Analyse<ol style="list-style-type: none">1. The development in characters2. The development of the plot3. Narrative techniques4. Author's writing style	<p>https://www.classicshorts.com/</p>



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Mathematics (Accelerated)	Graphs of functions <ul style="list-style-type: none">• Draw quadratic, cubic, exponential and reciprocal graphs from the given equation• Solve an equation using graphs• Estimate the gradient of tangent at a given point to the curve. Travel graph: <ul style="list-style-type: none">• Interpret and calculate the total distance, average speed and acceleration from the given distance time graph• Interpret and calculate the acceleration from the gradient and the total	<ul style="list-style-type: none">• Research on different non-linear functions and their graphing. Do you notice any pattern in the shape of the graph of different functions?• Research on the applications of travel graphs. Make notes on the important points of distance - time and speed – time graphs	https://www.mathsisfun.com/sets/graph-equation.html https://www.bbc.co.uk/bitesize/guides/zvdmsrd/revision/1 https://www.youtube.com/watch?v=wSPrXv7-8GQ https://www.youtube.com/watch?v=pG1JHsFi6cQ Graphs of quadratic functions - Solving quadratic equations - Edexcel - GCSE Maths Revision - Edexcel - BBC Bitesize https://www.bbc.co.uk/bitesize/guides/z2wy6yc/revision/3 https://mathsmadeeasy.co.uk/gcse-maths-revision/distance-time-graphs-gcse-revision-and-worksheets/
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	distance travelled as area under a speed-time graph.		https://www.bbc.co.uk/bitesize/guides/zxrtw6f/revision/2 https://www.savemyexams.co.uk/notes/cie-igcse-maths-new/2-algebra-graphs-cie/2-13-speed-distance-time-cie/2-13-2-speed-time-graphs-cie/
Mathematics (Extended)	<p>Circle Theorems Learning objective:</p> <ul style="list-style-type: none"> To recognize and apply circle theorems to find unknown angle measures in circles. To solve problems involving tangents of circles and alternate segments. <p>Histograms Learning objectives:</p>	<ul style="list-style-type: none"> Take some large cut out circles / paper plates. Label the center, draw the diameter. Now try each circle theorem on these papers cut outs by drawing the required angles and lines. See whether each circle theorem holds true in any circle of any radius. Create a lapbook on circle theorems <ul style="list-style-type: none"> Research on the applications of histograms. Differentiate between histograms and bar charts. 	https://www.mathsisfun.com/geometry/circle-theorems.html https://www.youtube.com/watch?v=GjDS4lcnG4w https://www.youtube.com/watch?v=ZNEsGeuX9xE https://www.youtube.com/watch?v=26br7LNwETM https://www.mathsisfun.com/data/histograms.html



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	<ul style="list-style-type: none"> • To interpret a histogram and solve real life problems for the given data • To calculate the frequency density from grouped data and draw a histogram. • To determine the total frequency from a given histogram 		https://www.bbc.co.uk/bitesize/guides/zc7sb82/revision/2 https://www.youtube.com/watch?v=1TjKD676MU8 https://www.youtube.com/watch?v=DjJVyBWifU https://www.youtube.com/watch?v=TN172Wt_3Ac
Physics	<u>Waves</u> <ul style="list-style-type: none"> • To distinguish between transverse and longitudinal waves. • To describe wave motion with the help of wave fronts and represent Reflection and Refraction with wave fronts. • To describe Diffraction through a narrow gap. 	Research on: <ul style="list-style-type: none"> ❖ Create a list of questions you would like to ask your teacher. Frame higher order questions using bloom's taxonomy. ❖ Real life applications of Diffraction 	http://www.bbc.co.uk/schools/gcsebitesize/science/ocr_gateway/home_energy/introduction_to_wavesrev6.shtml https://www.youtube.com/watch?v=7cDAYFTXq3E http://scienceprojectideasforkids.com/2010/sound-pitch-loudness/

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	<p><u>Electromagnetic Spectrum</u></p> <ul style="list-style-type: none"> Analyse the main features of electromagnetic waves and describe the roles of the different types of em waves. <p><u>Sound</u></p> <ul style="list-style-type: none"> Describe an experiment to determine the speed of sound in air. Relate the loudness and pitch of sound wave to amplitude and frequency. 	<p>Research on:</p> <ul style="list-style-type: none"> The applications of gamma radiations and how it is used in Medicine. Draw diagrams representing reflection, refraction and diffraction using wave fronts. 	<p>http://earthsky.org/space/what-is-the-electromagnetic-spectrum https://www.youtube.com/watch?v=J97YScnU4KM</p>
<p>Chemistry</p>	<p>Electrolysis of molten and aqueous ionic compounds.</p> <ul style="list-style-type: none"> Explain electrolysis as the breakdown of an ionic compound, molten or in aqueous solution, by the passage of electricity Relate the products of electrolysis to the electrolyte and electrodes used, 	<ul style="list-style-type: none"> Activity 1 Plan an experiment to separate Hydrogen and Oxygen from water. Activity 2 Create a poster in infographics “comparing the electrolysis of molten and aqueous NaCl”. Activity 3 	<p>https://www.youtube.com/watch?v=czwmdXpwd5Y https://www.youtube.com/watch?v=7ulq_Ofzgw</p>



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	<ul style="list-style-type: none"> •Construct ionic half-equations for reactions at the cathode and at the anode •Describe the production of electrical energy from simple cells •Outline the uses of electroplating 	<p>-Make a presentation on uses of the products formed as the result of electrolysis of Sea Water.</p> <ul style="list-style-type: none"> • Activity 4 <p>Write an Article on Hydrogen production in UAE.</p>	
<p>Biology</p>	<p><u>Human nutrition</u></p> <ul style="list-style-type: none"> • To describe the alimentary process involved in digestion. • To Describe the structure of human teeth, limited to enamel, dentine, pulp, nerves and cement, as well as the gums • To Describe the proper care of teeth in terms of diet and regular brushing • To describe significance of chemical digestion in the alimentary canal in producing 	<ul style="list-style-type: none"> • Make a report on the main sources of each type of nutrient in their own country and also compare how diets differ in other parts of the world. • Conduct an experiment in your home showing the process of digestion (Banana sandwich experiment) and compare the ingredients with the parts of digestive system in your report. • Conduct an experiment to show the effect of various food stuffs on your teeth. 	<p>http://emedicine.medscape.com/article/1104623-overview</p> <p>https://www.youtube.com/watch?v=zobLC_tn3f0</p> <p>https://youtu.be/aeml64NAK08</p> <p>http://luvprek.blogspot.ae/2011/02/toothy-eggspexperiment.html</p> <p>https://youtu.be/15NXrnyT2HM</p> <p>http://acaai.org/allergies/types/food-allergy</p>



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	<p>small, soluble Molecules that can be absorbed.</p> <ul style="list-style-type: none"> To describe the roles of capillaries and lacteals in villi. 	<ul style="list-style-type: none"> Students research on the diseases caused by indigestion of food or food allergies. 	
Food and Nutrition	<p>Sources and functions of the following <u>Nutritive value of foods</u>:</p> <ul style="list-style-type: none"> vitamins (A, C, D, E, K, B group – thiamin, riboflavin, nicotinic acid and cobalamin) mineral elements (calcium, iron, phosphorous, potassium, sodium, fluoride, chloride, iodide) water Sources and uses of food energy. 	<p><u>The Nutrient Content of Food</u></p> <ul style="list-style-type: none"> Use different visual aids to show how water, light and air affect nutrients Cut out pictures of foods from magazines and sort into Nutrient groups. Paste them onto card and design a game, (eg, like snap or happy families) matching the name of the nutrients with the sources and function. Design an experiment to see what happens to vitamins when heat is applied. Adapt any recipe containing <u>carrot</u> to make something different keeping in mind to 	<p>Food a fact of life website - http://www.foodafactoflife.org.uk/ The Eatwell plate- https://www.gov.uk/government/publications/the-eatwell-guide Nutrients www.healthline.com/health/food-nutrition/six-essential-nutrients www.nia.nih.gov/health/important-nutrients-know-proteins-carbohydrates-and-fats</p>

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		retain the nutritive value as much as possible.	
Economics	<ul style="list-style-type: none"> To develop independent researching on classification of firms. To developed analytical research on causes and forms of the growth of firms 	<ul style="list-style-type: none"> Prepare a presentation in terms of primary/secondary/tertiary sectors and private/public sector, and the relative size of firms and their importance for country's output. Prepare a presentation on differentiation of Internal growth, for example increased market share. External growth, for example mergers by using real life examples. 	https://youtu.be/BP5ALr-3Q2o https://youtu.be/uOO4CIVUrkw https://youtu.be/0iWV98mJNBk
Accounting	<ul style="list-style-type: none"> To analyse the concept of accrued expenses and prepaid expenses. To analyse the need and process of adjusting for accruals and prepayments in preparing financial statements. 	<ul style="list-style-type: none"> Analyse the advantages of preparing other payable and other receivable accounts and to analyze the procedures of double entries. Explain the importance of matching costs and revenue. 	<ul style="list-style-type: none"> http://showmyupdates.blogspot.ae/2014/12/trading-profit-loss-ac-and-balance-sheet_28.html https://www.youtube.com/watch?v=T-imJYUi_ug http://www.moneycontrol.com/india/financials/tatamotors/profit-loss/TM03



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			<ul style="list-style-type: none"> • http://www.investopedia.com/terms/p/plstatement.asp • https://en.wikibooks.org/wiki/Accountancy/Books_of_Prime_Entry • http://kfknowledgebank.kaplan.co.uk/KFKB/Wiki%20Pages/Books%20of%20Prime%20Entry.aspx
Business Studies	<ul style="list-style-type: none"> • To Know the processes involved in recruitment planning • To prepare documentation on the importance of effective recruitment and selection of new employees. 	<p>Starbucks has one of the lowest rates of labour turnover of any large scale catering business. Here is a quote from one of its baristas: ‘Starbucks really is a kind company. It gives its employees health insurance, good pay, opportunities for career development and a real sense of belonging. Concern for employee welfare is genuine. All of its baristas are trained to make the customer happy.’</p> <ul style="list-style-type: none"> • Analyse the benefits to Starbucks of extensive employee training. • Research task: Use the following link to discover the tips that Starbucks offers job applicants: www. 	<p>Recruitment and Selection Process in HRM - Business Study Notes Recruitment & Selection - Overview Business tutor2u The recruitment process - Recruitment and selection - National 5 Business management Revision - BBC Bitesize</p>

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		starbucks.co.uk/careers/interview-tips. Write a short report to Starbucks directors on the importance of effective recruitment and selection of new employees.	
Travel and Tourism	<ul style="list-style-type: none"> To analyze the role, products, and services and appeal of travel agents and tour operators. 	Research one travel agent and one tour operator: <ul style="list-style-type: none"> List the types of products they offer and how they are being sustainable suggest ways these organizations could be more sustainable using their current knowledge of sustainability 	https://www.academia.edu/28325625/Examples_of_Products_and_Services_of_Travel_Agency
Sociology	<ul style="list-style-type: none"> Culture, identity and socialisation Social Role 	<ul style="list-style-type: none"> Research factors that may shape people’s identities. Answer the given question in detail: People's identities are shaped by role, age, gender, ethnic group and social class. Justify 	<ul style="list-style-type: none"> Sociology Course book. Jonathan Blundell Relevant internet sources
Psychology	<ul style="list-style-type: none"> Introduction to mental health issues, depression and addiction. 	<ul style="list-style-type: none"> To analyse the different symptoms and causes of addiction and depression. To explore the diagnostic tools used to identify mental health issues as per the ICD and DSM. Comparing the effectiveness of the ICD and DSM in diagnosis. 	Psychology text (Ed excel GCSE 9-1) Case studies/ Videos ICD and DSM



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Geography	<u>Coastal Landforms</u> <ul style="list-style-type: none">To analyse the various types of erosional and depositional landforms formed in a coast.	<ul style="list-style-type: none">Select a coastal area and illustrate how the various coastal landforms have been formed due to wave action.	https://www.savemyexams.co.uk/igcse/geography/edexcel/19/revision-notes/2-coastal-environments/2-1-coastal-processes--landforms/2-1-1-coastal-processes/ https://www.i-study.co.uk/igcsegeography/coasts.html
History	<ul style="list-style-type: none">Russia and WWI	<ul style="list-style-type: none">Research the topic using different available sources.Answer the following question in detail:Evaluate the impact of WWI on the downfall of Tsar	History Textbook https://alphahistory.com/worldwar1/russian-revolution/#:~:text=The%20effects%20of%20World%20War,socialists%20just%20eight%20months%20later. https://www.history.com/news/world-war-i-russian-revolution

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Environmental Management	<u>Agriculture and the environment</u> <ul style="list-style-type: none"> To investigate the strategies employed to increase crop yield. 	<p>Students will use various online resources to <u>investigate</u> methods that can be used to increase crop yield and <u>evaluate</u> their importance:</p> <ul style="list-style-type: none"> Crop rotation Irrigation Mechanisation Selective breeding Fertilization Use of pesticides Controlled crop environment Genetic engineering 	<p>Various online sources as selected by the student for research</p> <p>https://eos.com/blog/crop-yield-increase/</p> <p>https://www.nature.com/articles/s41586-019-1679-0</p>
ICT	<ul style="list-style-type: none"> Computer Networking <p>To analyse various types of networks and networking devices.</p> <ul style="list-style-type: none"> To explore and illustrate how to configure a small network with real life applications. 	<p>Develop a project, as a real-life scenario of a company, on Computer Networking, highlighting</p> <ul style="list-style-type: none"> Network Devices IP and the MAC Wi-Fi 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 	<p>https://www.saylor.org/.../Computer-Networking-Principles-Bonaventure</p> <p>https://www.memorize.com/grade-10-computer-networking</p>

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		network. Encourage the child to research and read online to get information but write in their own words after understanding.	
Computer Science	To explore the Input Output devices and create a power point presentation on it	<ul style="list-style-type: none"> Describe direct data entry and associated devices, e.g., magnetic stripe readers, chip and PIN readers, Radio Frequency Identification (RFID) readers, Magnetic Ink Character Reader (MICR), Optical Mark Reader (OMR), Optical Character Reader (OCR), bar code reader Identify the advantages and disadvantages of any of the above devices in comparison with others Identify output devices and their uses, e.g., CRT monitor, TFT/LCD monitor, IPS/LCD monitor, LED monitor, touch screen (as an output device), multimedia projector, laser printer, inkjet printer, dot matrix printer, wide format printer, 3D printer, speakers, motors, buzzers, heaters, lights/lamps 	http://www.bitsofbytes.co/



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		<ul style="list-style-type: none">• Describe the advantages and disadvantages of any of the above devices• The powerpoint presentation should be well designed, using special effects and animations. Use a master slide to specify uniform settings throughout the presentation.	
Physical Education	<ul style="list-style-type: none">• To learn about health and fitness.• To know the importance of good health in life.	<ul style="list-style-type: none">• On A3 paper create a poster that clearly defines all aspects of good health and fitness.• Incorporate all the information you have learnt from this lesson and use your own additional ideas from other resources like the internet, health magazines and newspaper articles.	<ul style="list-style-type: none">• www.teachpe.com• www.britishschoolofboston.org• www.cie.org.uk• www.innerbody.com• www.physicaleducation.co.uk

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Art	<ul style="list-style-type: none"> • AO1: Record ideas, observations and insights relevant to intentions as work progresses • AO2: Explore and select appropriate resources, media, materials, techniques and process. • AO3: Develop ideas through investigation, demonstrating critical understanding 	<ul style="list-style-type: none"> • Record ideas from first-hand studies and investigate a number of different approaches considered alternative media and techniques. • All works attempted must show exploration and experimentation with appropriate materials with intentions. • Students to present an informed response through personal evaluation and critical thinking. 	www.studentartguide.com
French	<ul style="list-style-type: none"> • Ma famille • Comment sont-ils physiquement? • Comment sont-ils de caractère? • Je me détends chez moi • Les adjectifs possessifs 	<ul style="list-style-type: none"> • Reading : to read a different texts on the same topics • Listening: to listen to different audio/video on the same topic • Speaking: to make a different podcasts on "how to describe somebody physically and characters" • Writing: to make a different writing tasks on "how to describe somebody physically and characters" 	https://www.lepointdufle.net/p/lexique_famille.htm https://www.coursfrançaisfacile.com/2019/07/vocabulaire-pour-decrire-une-personne.html https://bonjourdefrance.com/lessons/a1/comprehension/52 https://www.francepodcasts.com/2020/06/11/les-adjectifs-possessifs/

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	<ul style="list-style-type: none"> • Les adjectifs irréguliers • Les verbes pronominaux 		https://www.relecture-chocolat.fr/les-adjectifs-irreguliers/
Arabic (Arabs)	<p>TOPIC:</p> <p>قصة قصيرة الشاعر النمر سيرة ذاتية الأيام لطف حسين مقال الدول بين الابتكار أو الاندثار</p> <p>Learning objectives:</p> <p>يحلل القصة إلى عناصرها الفنية يستخرج تقنيات كتابة النص يستنتج المغزى من القصة يميز بين سمات السيرة الذاتية والسيرة الغيرية يحلل سيرة طه حسين والاستفادة منها يدلل على فكرة المقال من خلال الأدلة يقارن بين عوامل ازدهار أو اندثار الدول يستنتج السمات الفنية للمقال من خلال أسلوب الكاتب ينقد الأدلة التي عرضها الكاتب ومدى كفايتها في المقال</p>	<p>يحلل القصة إلى عناصرها الفنية يستخرج تقنيات كتابة النص يستنتج المغزى من القصة يميز بين سمات السيرة الذاتية والسيرة الغيرية يحلل سيرة طه حسين والاستفادة منها يدلل على فكرة المقال من خلال الأدلة يقارن بين عوامل ازدهار أو اندثار الدول يستنتج السمات الفنية للمقال من خلال أسلوب الكاتب ينقد الأدلة التي عرضها الكاتب ومدى كفايتها في المقال</p>	<p>https://www.youtube.com/watch?v=e3ailrZ21WQ&t=389s</p> <p>https://www.youtube.com/watch?v=re4ht124NgE</p> <p>https://www.youtube.com/watch?v=FizqbkT2pyg</p>

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<p>Arabic (Non-Arabs)</p>	<p>الطاقة أن يحدد التلاميذ أنواع الطاقة أن يميز التلاميذ بين مصادر الطاقة أن يوضح التلاميذ أهمية الطاقة أن يحلل التلاميذ أدبيا</p>	<ul style="list-style-type: none"> • Research the topic Types of energy • Write an essay about the types of the energy. • Create videos about the sources of energy. • Make a magazine about the energy. • Create a report about cities using clean energy. 	<p>https://www.youtube.com/watch?v=mAevY1UUB-k https://www.youtube.com/watch?v=zP2xdZxlH1o https://www.youtube.com/watch?v=m0bFWgLwNuc</p>
<p>Islamic Education (Arabs)</p>	<p>TOPIC: اختلاف الفقهاء- منهج النبي في الدعوة - تدوين السنة Learning objectives: 1. يستنتج أسباب الاختلاف الفقهي بين المذاهب الأربعة 2. يوضح خصائص المنهج النبوي في الدعوة 3. يبين المراحل التي مر بها تدوين السنة</p>	<p>1. يبين موقف المسلم من اختلاف الفقهاء 2. يستنتج أثر منهج النبي في الدعوة على حياة المسلم 3. يميز بين أنواع مصنفات الحديث</p>	<p>https://www.youtube.com/watch?v=WPRXJuBLIA https://www.youtube.com/watch?v=S4LHN3EoD9M&list=PL-ZWNyL2NZVCV3J7AFoy1HZ-dUfZJEfgz https://www.youtube.com/watch?v=D5JHhb1DF5I</p>

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<p>Islamic Education (Non Arabs)</p>	<p><u>TOPIC:</u></p> <p>1. The Prophet’s, peace be upon him, Methodology in Da’wah 2- The Prophet’s PBUH Sunnah</p> <p><u>Learning objectives:</u></p> <ul style="list-style-type: none"> • Identify the concept of the Prophet’s methodology in Da’wah. • Explain the characteristics of the Prophet’s methodology in Da’wah. • Mention the styles of the Prophet’s methodology in Da’wah. • Identify the Prophet’s Sunnah • To Explain the position of Sunnah in Shariah 	<p>Research and learn about The Prophet’s Methodology in Dawaa</p> <ul style="list-style-type: none"> • Create a detailed mind map about it. • Write a report on the benefits of dressing etiquette in Islam. 	<p>https://www.youtube.com/watch?v=FXdvdRmGchE https://www.youtube.com/watch?v=aBByX6MkS4</p>
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	<ul style="list-style-type: none">• Give evidence of the authority of the Prophet's Sunnah		
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<p>Statistics</p>	<p>TOPIC: Summarising Data: Quartiles, standard deviation, Comparing data set</p> <ul style="list-style-type: none"> To Calculate the range, quartiles, percentiles and interquartile range for discrete and continuous data, calculate the inter percentile range and inter decile range To Calculate the standard deviation, compare data samples and to compare sample data with population data when given measures of dispersion. 	<ul style="list-style-type: none"> Explain difference between range and interquartile range, difference between measures of dispersion with measures of centrality by quoting real life examples Explain the difference between measures of dispersion with measures of centrality 	<p>https://www.teachoo.com/subjects/cbs-e-maths/class-10th/ch14-10th-statistics/</p>
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