

Aim High Study Progress Programme

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Area for learning	Focus	Activities	Useful Websites/Apps
English 1 <sup>st</sup> Language	Descriptive Writing Persuasive Writing	To read various extracts from noted authors and identify the techniques applied to persuade the reader. Identify the choice of vocabulary used to describe effectively. Write a descriptive piece based on a daily situation keeping in mind the strategies relevant to making that piece effective.	<u>http://www.penguin.com.au/ext</u> <u>racts</u>
English 2 <sup>nd</sup> Language	<ul> <li>Vocabulary</li> <li>Features of Article Writing</li> <li>Skimming and scanning Skills</li> <li>Article format</li> <li>Letter format</li> <li>Complex sentence Structure.</li> <li>Using connectives</li> </ul>	<ul> <li>Imagine you have just returned from a very disappointing trip. Write a letter to your friend telling him/her what happened.</li> <li>Write an article for your school magazine on how fashion influences the society and its effects on teens.</li> </ul>	http://www.debate.org/opinions /is-fashion-harmful-to-society http://www.englishforums.com/ English/YoungSlavesFashionDi scuss http://esligcse.webs.com/ex6wri ting1.htm www.englishforeveryone.org



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Mathematics	LOGARITHMS AND	Research on Using the Distance and	
(Additional)	EXPONENTIAL	Midpoint Formulas in Real Life	http://www.classzone.com/eservices/
	• Use simple properties of	ARCHEOLOGY. For example While on an	home/pdf/student/LA210AAD.pdf
	the logarithm and	archaeological dig, you discover a piece of a	http://www.mathplanet.com/educati
	exponential functions	broken dish. To estimate the original	on/algebra-1/radical-expressions/the-
		I diameter of the dish, you lay the piece on a	distance-and-midpoint-formulas
	including ln x and e <sup>x</sup> .	coordinate plane and mark three points on	
	Sketch the graphs of	the circular edge. Use these points to find	https://www.sophia.org/concepts/mi
	logarithm and exponential	the diameter of the dish.	dpoint-formula-in-the-real-world
	<ul> <li>functions including e<sup>x</sup> and ln x and transform them.</li> <li>Apply laws of logarithm, including change of base of logarithms.</li> <li>Solve complex equations involving logarithms and exponential.</li> </ul>	The variables x and y are related by the equation $ax^2 - by^2 = x$ . The straight line graph obtained by plotting values of $y^2/x$ against the values of x, has a gradient of 4/9 and passes through the point (18,4). Find a and b. Explain how to cross link logarithms and exponential functions.	http://www.warrick.k12.in.us/schools /castlesouth/docs/Math/Algebra/Alg %201%2012.6%20pg%20748.pdf http://www.americanbookcompany.c om/newsite/samplebooks/SAMPLE%2 OPAGES%20- %20Passing%20the%20North%20Caro lina%20End-of-
	STRAIGHT LINE GRAPHS		Course%20Test%20for%20Algebra%2
	<ul> <li>Interpreting equations of straight-line graphs</li> </ul>		<u>Ol/files/assets/downloads/page0016.</u> pdf



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Mathematics	<ul> <li>Transforming given relationships to straight line form and determining the unknown constants</li> <li>Solving questions involving the mid-point and length of a line</li> <li>Parallel and perpendicular lines</li> <li>VECTORS</li> </ul>	Research on the motion of a projectile	https://www.chegg.com/tutors/what- are-Distance-and-Midpoint-Formulas/
(Extended)	<ul> <li>To add vectors and multiply a vector by a scalar.</li> <li>To calculate the position vectors</li> <li>To express given vectors in terms of coplanar vectors.</li> </ul>	Research on the application of quadratic graphs in calculating areas, determining a product's profit or formulating the speed of an object	(0580) PAST PAPER QUESTIONS - YouTube https://www.youtube.com/watch?ap p=desktop&v=i0bsXUTbFa8



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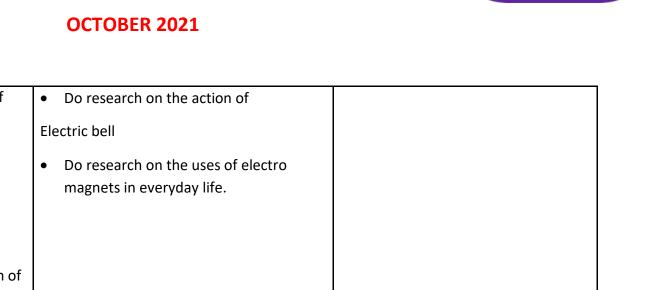


	GRAPHS Learning objective: To solve an equation from the graph by drawing required line. To draw quadratic, cubic and exponential graphs for the given equations To draw the tangent to the curve and estimate the gradient.		https://www.youtube.com/wat ch?v=bt-xg3bl3jc https://www.youtube.com/wat ch?v=MohoNL5BuZ8&t=520s https://www.youtube.com/wat ch?v=lyYHsKRC7os&t=16s https://www.youtube.com/wat ch?v=pG1JHsFi6cQ
Physics	<ul> <li>Logic Gates</li> <li>Design and understand simple digital circuits combining several logic gates</li> <li>Apply truth tables to describe the action of individual gates and</li> </ul>	<ul> <li>Use Sam labs website to investigate the action of logic gate</li> <li>Investigate on how the turning effect of a d.c. motor will change if the current flowing through the motor coil is increased.</li> </ul>	<ul> <li><u>https://samlabs.com/us/</u></li> <li><u>www.skool.co.uk</u></li> <li><u>www.lslandphysics.com</u></li> <li><u>www.cie.org.uk</u></li> <li><u>https://www.e4training.com/e</u> <u>ddy/simulate9.html</u></li> </ul>



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COOLON

simple combinations of gates	<ul> <li>Do research on the action of</li> <li>Electric bell</li> <li>Do research on the uses of electro magnets in everyday life.</li> </ul>
<ul> <li>The magnetic effect of a current</li> <li>To describe the pattern of the magnetic field due to</li> </ul>	magnets in everyday me.
<ul> <li>currents in straight wires and in solenoids.</li> <li>To describe the effect on the magnetic field of changing the magnitude and direction of the current.</li> </ul>	
<ul> <li>State and use the relative directions of force, field and current.</li> </ul>	



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Carbonates     To explore and     P	
demonstrate an understanding of the chemistry of limestone C Chemical energetics • To investigate the energy change in a given reaction • To compare exothermic and endothermic reactions. • D d	<ul> <li>https://www.savemyexams.co</li> <li>uk/notes/igcse-chemistry-cie- new/13-carbonates/13-1- carbonates/</li> <li>https://pmt.physicsandmathst utor.com/download/Chemistr y/GCSE/Notes/CIE-IGCSE/13- Carbonates.pdf</li> <li>https://www.savemyexams.co</li> <li>utor.com/download/Chemistr y/GCSE/Notes/CIE-IGCSE/13- Carbonates.pdf</li> <li>https://www.savemyexams.co</li> <li>uk/notes/igcse-chemistry-cie- new/6-chemical-energetics/6- 1-chemical-energetics/6-1-1- energetics-of-a-reaction/</li> <li>https://igcsechemrevision.wor dpress.com/section-4/b- energetics/</li> </ul>



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	<ul> <li>Production of energy</li> <li>To explore various</li></ul>	<ul> <li>Design an infographic poster using</li></ul>	<ul> <li><u>https://www.bbc.co.uk/bitesiz</u></li></ul>
	types of fuels and	CANAVA /Glogster on 'Types of fuel	e/guides/z8p72hv/revision/1 <li><u>http://www.docbrown.info/pa</u></li>
	ways of energy	cell' <li>Write an article on 'Hydrogen fuel</li>	ge01/ExIndChem/electrochem
	transfers.	cell – future of energy.	istry10.htm
Biology	<ul> <li>Control and coordination</li> <li>Describe a simple reflex arc in terms of sensory, relay and motor neurons, stimulus and effector.</li> <li>Justify the significance various types of neurotransmitters.</li> <li>Describe the action of antagonistic muscles to</li> </ul>	<ul> <li>Outline a schematic representation of a reflex arc.</li> <li>Explain how knee jerk reflex is an example of an reflex action.</li> <li>Create an infographic poster on various sense organs and its role as a receptor of stimulus.</li> <li>Compare the structure and function of the 3 different neurons.</li> </ul>	<ul> <li><u>https://www.youtube.com/wa</u> <u>tch?v=3IVEoR_DrSE</u></li> <li><u>https://www.youtube.com/wa</u> <u>tch?v=Uk0U16uZpPA</u></li> <li><u>https://www.youtube.com/wa</u> <u>tch?v=yxjJQ3VogMQ</u></li> <li><u>https://www.youtube.com/wa</u> <u>tch?v=PxSkuyjZ3MM</u></li> <li><u>https://pmgbiology.com/tag/g</u> <u>eotropism/</u></li> </ul>



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	<ul> <li>include the biceps and triceps at the elbow joint</li> <li>Define sense organs as groups of receptor cells responding to specific stimuli: light, sound, touch, temperature and chemicals</li> <li>Describe the structure and function of the eye including accommodation and pupil reflex</li> <li>Correlate the significance of synapse and types of neurotransmitters.</li> </ul>	<ul> <li>Create a simulation to explain synapse and the transmission of electrical impulse across.</li> <li>Plan an investigation to explain geotropism and phototropism.</li> </ul>	<ul> <li><u>https://www.bbc.com/bitesize</u> /guides/ztjrng8/revision/3</li> <li><u>http://igbiologyy.blogspot.co</u> m/2014/03/89- accommodation-focusing-on- objects.html</li> </ul>
Food and Nutrition	<ul> <li>Reasons for preserving food.</li> </ul>	<ul> <li>Look at various food packages that you have at home and complete writing about the information present on the food labels</li> </ul>	<ul> <li><u>http://www.bbc.co.uk/schools</u> /gcsebitesize/science/add_gat eway_pre_2011/greenworld/d ecayrev2.shtml</li> </ul>



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Economics	<ul> <li><u>Topic:</u> Government and the macroeconomy</li> <li>4.4.1 definition of money supply and monetary</li> </ul>	<ul> <li>smells fine.</li> <li>Best before: These dates refer to quality rather than food safety. Foods with a 'best before' date should be safe to eat after the 'best before' date, but they may no longer be at their best.</li> <li>Government and the macroeconomy In groups, students produce a flow diagram showing how an increase in the money curply may affect a gavernment's</li></ul>	Online: http://www.tutor2u.net/economics/r evision-notes/as-
	<ul> <li>policy</li> <li>4.4.2 monetary policy measures</li> </ul>	supply may affect a government's macroeconomic aims. Pair work : Idiscusses whether sectors:	http://www.revisionguru.co.uk Video link: https://www.tutor2u.net/economics/



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• 4.5.1 definition of supply-	Answer Individual Activity 1.	reference/evaluating-fiscal-policy-
side policy • 4.5.2 supply-side policy	Answer Activities 1 and 2.	online-lesson
		online-lesson Online: https://www.tutor2u.net/economics/ blog/revision- consequences- of- unemployment https://tradingeconomics.com/thailan d/unemployment-rate Video link: http://www.dineshbakshi.com/igcse- gcse- economics/economic- indicators/revision-notes/114-types- of- unemployment Online: http://www.ons.gov.uk/ons/guide-
<ul> <li>4.7.5 measurement of unemployment</li> <li>4.7.4 causes/types of unemployment</li> <li>4.7.5 consequences of unemployment</li> </ul>	select a card naming the type of unemployment, a diagram showing the effect of the unemployment, a cost of the unemployment, a benefit of the	<u>method/method-</u> quality/quality/quality- information/economy/quality-and- methodology-information-for-cpi- and-rpi.pdf (Differences between the RPI and CPI.)



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• 4.7.6 policies to reduce	unemployment and a policy measure to	http://www.dineshbakshi.com/printa
unemployment	reduce the unemployment.	ble-worksheets/1278- igcse-
<ul> <li>unemployment</li> <li>Topic: Inflation and Deflation</li> <li>4.8.1 definition of inflation and deflation</li> <li>4.8.2 measurement of inflation and deflation</li> <li>4.8.3 causes of inflation and deflation</li> <li>4.8.4 consequences of inflation and deflation</li> <li>4.8.5 policies to control inflation and deflation</li> </ul>	reduce the unemployment. Inflation and Deflation Students answer Individual Activity 1. Students, in pairs, research how and why the weights in the country's consumer prices index (CPI) have changed in the last ten years. Bring the class together to discuss findings. Students answer Activity 2.	ble-worksheets/1278- igcse- economics-worksheet-on-cpi (Worksheet on CPI) Video link: http://www.dineshbakshi.com/igcse- gcse- economics/economic- indicators/revision-notes/110-effects- of- inflation http://www.dineshbakshi.com/igcse- gcse-economics/economic- indicators/revision-notes/109-what- is-inflation (Video on inflation) http://www.dineshbakshi.com/igcse- gcse-economics/economic- indicators/interactive-quizzes/126- inflation-multiple-choice- quiz



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Business Studies	To describe	Choose and complete any two tasks from	www.dineshbakshi.com
	Productivity	the following:	
	<ul> <li>To explain the</li> </ul>	<ul> <li>Create a mind map (soft copy) on</li> </ul>	www.cie.org.uk
	Lean Production, Kaizen a	the <b>JLT</b> and then explain how it	
	nd JLT	eliminate need to hold inventory.	www.en.wikipedia.org/wiki/Tax
	<ul> <li>To analyse the</li> </ul>	<ul> <li>Make a poster (soft copy)</li> </ul>	
	methods of production	Investigate examples of Production	
	<ul> <li>To evaluate the</li> </ul>	method used in your own	
	role of technology in	country/country of your choice.	
	production method	<ul> <li>Investigate/Research</li> </ul>	
		Why business hold inventories.	
		Illustrate by diagram buffer	
		inventory, reorder level and	
		maximum inventory level.	
		• Create a mind map (soft copy) on	
		the <b>Kaizen</b> and then explain how it	
		eliminate need to hold inventory.	
		<ul> <li>Investigate and make a report (soft</li> </ul>	
		сору)	
		With regard to any country note the	
		new technology used to enhance	
		the production in the business. List	
		five companies and the name of	
		technology used.	



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		<b>Investigate/Research</b> -Create a prezi explaining different production methods.	
Travel and Tourism	To discover the future of tourism and mobility in the digital age.	<ul> <li>Research, analyse and understand Expo 2020: How Dubai's new megacity takes shape.</li> <li>Why is Expo 2020 important?</li> <li>What are the Key themes of Expo 2020?</li> <li>What is the purpose of Expo 2020?</li> <li>Who can participate in expo 2020?</li> <li>Analyse the impact of Expo 2020 to the country and nation.</li> <li>How does the Expo School Programme engage with the UAE's school community.</li> </ul>	https://schools.expo2020dubai.com/ https://www.expo2020dubai.com/en /news/20181029-expo-week https://www.expo2020dubai.com/



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Psychology	<ul> <li>Criminal Psychology</li> <li>Treatments to rehabilitate and reduce criminal and antisocial behaviour and increase prosocial behaviour.</li> </ul>	<ul> <li>Green link Prison is considering using a token economy programme to manage the behaviour of inmates.</li> <li>Using your knowledge of token economy programmes, explain what Greenlink Prison will need to consider when setting up this programme?</li> </ul>	Cambridge IGCSE Psychology textbook. <u>What is a Token Economy? (with</u> <u>picture) (wise-geek.com)</u> <u>TOKEN ECONOMY STRATEGIES IN</u> <u>CRIMINAL INSTITUTIONS on JSTOR</u>
Sociology	Crime and Deviance: To analyse the crimes related to new technology.	Analyse the prevalence of Surface Web, Deep Web and Dark Web crimes and provide various examples	Cambridge IGCSE Sociology course book
Geography	<ul> <li>To determine the factors that leads to tourism growth in an area.</li> </ul>	Create a graph showing the tourism growth of UAE over the past 50 years and analyse the reasons for the same.	Cambridge IGCSE Geography textbook <u>https://www.thegeographeronline.ne</u> <u>t/tourism1.html</u>



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	<ul> <li>Determine to ways to manage sustainable tourism.</li> </ul>		
History	How effectively did the USA contain the spread of Communism?	Case Study – American involvement in Vietnam. How successful was America in containing Communism?	<u>http://everything2.com/title/The+Fail</u> <u>ure+of+Containment+During+the+Col</u> <u>d+War</u>
Global Perspectives	Team project-Team element	<ul> <li>Collaborate with your team (3-4 students) to complete a team project with a clear aim and outcome:</li> <li>Choose a specific issue in one team project topic</li> <li>Write a project aim and decide on an outcome eg short film documentary</li> <li>Research the issue focusing on the cultural perspective</li> </ul>	Sources chosen by students. Examplar: <u>https://www.youtube.com/watch?v=</u> <u>v2b9ICPH2eA</u>



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		<ul> <li>Present your project- create a project outcome</li> <li>Write a short explanation- 250 – 300 words.</li> </ul>	
Environmental	Atmosphere and human	Conduct a research on the human impact	https://www.nrdc.org/stories/air-
Management	activities	on atmosphere:	pollution-everything-you-need-know
		<ul> <li>Atmospheric pollution-causes and impacts</li> <li>Managing atmospheric pollution</li> <li>Create Revision flash cards on the topic that you will use for personal revision.</li> </ul>	https://climatekids.nasa.gov/air- pollution/ https://www.nationalgeographic.org/ encyclopedia/air-pollution/
ICT	<u>Topic</u> –	Help your child to research on the various	
	Input and Output devices	range of input devices and output devices, used around UAE. Create a power point presentation, specifying following concepts:	https://mrlawsonsclassroom.weebly.c om/ www.ictlounge.com
	<u>Lesson Objective</u> –	input devices and their uses	www.aceit-training.com
		<ul> <li>identify input devices and their uses, e.g.</li> <li>keyboard, numeric keypad, pointing</li> </ul>	https://www.youtube.com/watch



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To explore the Input Output	devices (such as mouse, touchpad, tracker	https://www.udemy.com/excel_quick
devices and create a power	ball), remote control, joystick/driving	<u>start/</u>
point presentation on it	wheel, touch screen, scanners, digital	
	cameras, microphone, sensors (general),	
	temperature sensor, pressure sensor, light	
	sensor, graphics tablet, video camera, web	
	cam	
	direct data entry and associated devices	
	• 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	
	<ul> <li>identify the advantages and</li> </ul>	
	disadvantages of any of the above devices	
	in comparison with others	
	output devices and their uses	



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		<ul> <li>Explain 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</li> <li>describe the advantages and disadvantages of any of the above devices</li> <li>The power point presentation should be well designed, using special effects and animations. Use a master slide to specify uniform settings through the presentation.</li> </ul>	
Computer Science	<u>Topic:</u>	<ul> <li>Python is a programming language that lets you work more quickly and</li> </ul>	<u>High and Low Level Languages -</u> Computer Science GCSE GURU
	Programming language	integrate your systems more	
	Learning Objective:	effectively. You can learn to use Python	
		and see almost immediate gains in	



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	<ul> <li>Students will be able to analyse features of high level and low level language.</li> <li>Students will be able to compare different translators like compilers and translators.</li> </ul>	<ul> <li>productivity and lower maintenance costs.</li> <li>Support your child to analyse features of compiled and interpreted languages. Also discover few compiled languages.</li> <li>Motivate your child to explore the importance of pyDOC feature in programming language.</li> <li>Discuss with your child about various programming languages used in different companies of UAE.</li> </ul>	
PE	Simple biomechanics and Health and well-being.	<ul> <li>Collate examples of sporting situations that describe how forces are used and the effects they have.</li> <li>Practise drawing the three classes of lever, showing where the fulcrum, resistance and effort are located.</li> <li>Practise summarising the physical, mental and social factors that contribute to a healthy lifestyle.</li> </ul>	www.bbc.co.uk www.teachpe.com



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ART	Primary focus on Component One: Experiment, collaborate, make informed creative decisions and innovate for better outcome.	Working with a range of media, including traditional and new media and an awareness of different art and design practices in completing the coursework.	www.studentartguide.com
French	<ul> <li>Life at home:</li> <li>"Range ta chambre</li> <li>Bienvenue chez moi"</li> <li>Mon temps libre</li> <li>Tu veux sortir</li> <li>Eating out:</li> <li>Je vais au restaurant</li> <li>Grammaire:</li> <li>L'impératif</li> <li>Jouer de</li> <li>Jouer à</li> <li>Le futur proche/simple</li> <li>Le conditionnel présent</li> </ul>	<ul> <li>Writing:</li> <li>Write a text to speak about:</li> <li>House chores you do it at home every day.</li> <li>Who visited you at your place and how was the visit?</li> <li>Your free time</li> <li>Your activities out of home</li> <li>How to order food in a restaurant</li> <li>Reading:         <ul> <li>Text page 66/68/72/74/78</li> <li>Listening:</li> </ul> </li> </ul>	https://www.estudiodefrances.c om/taches-menageres/taches- menageres.html • https://www.didierlatitud es.com/exercices/latitude s1/unite-5- latitudes1/inviter-et- repondre-a-une- invitation-5/ • https://ticsenfle.blogspot. com/2015/02/les-taches- menageres-1-2.html • https://www.lepointdufle. net/p/lexique_loisirs.htm



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Les expressions de	<u>https://www.estudiodefrances.com</u>	• <u>https://www.podcastfran</u>
quantité	/taches-menageres/taches-	caisfacile.com/podcast/in
	menageres.html	viter-recevoir-des-amis-
	• <u>https://www.didierlatitudes.com/ex</u>	pendant-le-repas.html
	ercices/latitudes1/unite-5-	• <u>https://fleneso.blogspot.c</u>
	latitudes1/inviter-et-repondre-a-	<u>om/2012/01/on-va-au-</u>
	une-invitation-5/	restaurant.html
	> Speaking:	
	Record an audio to speak about:	
	House chores you do it at home	
	every day.	
	<ul> <li>Who visited you at your place and</li> </ul>	
	how was the visit?	
	Your free time	
	Your activities out of home	
	How to order food in a restaurant	



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Arabic (ARABS)	TOPIC:	يوظف أسلوب التقديم والتأخير	
	التقديم والتأخير		
	Learning objectives:	يعرب أسلوب التقديم والتأخي	
			http://www.voiceofarabic.net/a/
	أن يوظف أسلوب التقديم والتأخير		articles/2340
	أن يعرب أسلوب التقديم والتأخير		https://www.youtube.com/wat
	ΤΟΡΙϹ		h?v=joC0b_4quhc
	Learning objectives:		https://www.youtube.com/wath
			<u>?v=O_RnbfRFz8A</u>
	أن يحدد الاستعارة بنوعيها ويحللها		
	أن ينتج جملا تتضمنهما ويوظفهما	حدد الاستعارة بنوعيها ويحللها وينتج جملا تتضمنهما	
		يوظفهما في الكتابات الابداعية	
Islamic Education	TOPIC:	يحفظ سورة الاحزاب	www.ia.gov.ae/ar/Documents
(Arabs)		يحرص على اتباع القرآن الكريم	https://www.youtube.com/watc
		ابحث عن ميثاق اللغة العربي	<u>h?v=49vJNp6tHbl</u>



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Infer some provisions
from the verses.
Indicate the
significance and the
background of the
ayat.
Wisdom of sending
messengers to people
To evaluate why Allah
always sent His
messengers and prophets
to all nations.
Endowment: Giving and
Growth
Explain the concept of
endowment
Illustrate the Favor of
endowment
Distinguish between types
of endowment.



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