

GEMS Winchester School Dubai



Summer Learning Guide Year 12

Overview and Contents

This guide has been produced to support Year 12 students with their preparations for Year 13 study in 2022-2023. You should complete the activities as directed to you by your teachers in your end of term reports – if you are 'Working At' in a subject, you should complete those activities, for example. If you are a new student or the subject will be new to you next year, you should complete any of the activities you feel less confident about.

Please click on the links below to take you through to a combination of lesson and revision activities that can be completed for each subject during the Summer break. For each subject, there are also some suggestions of activities you can complete just for fun!

Subject	Link	Subject	Link
English Literature	Click here	Computer Science	<u>Click here</u>
Maths	Click here	ICT	<u>Click here</u>
Biology	Click here	French	<u>Click here</u>
Chemistry	Click here	Global Perspectives	<u>Click here</u>
Physics	Click here	Travel & Tourism	<u>Click here</u>
Arabic	Click here	Business Studies	<u>Click here</u>
Islamic	Click here	Economics	Click here
Psychology	Click here		

If your current working level in this subject is between Grade 1 and Grade 5, you should complete the activities as described in the table below. If your current working level is Grade 6 or better, you should identify topics from the table you feel less confident about and complete the relevant activities.

Торіс	Curriculum Expectation Success Criteria	Activities
Securing basic skills	AO1	Basic skills
Terminology	AO2	<u>Terminology</u>
Mood, voice, tone, narrator	AO2	<u>Mood etc</u>
Analysis - Poetry	AO2	Analysis
Understanding Form	AO2	<u>Form</u>
Understanding Structure	AO2	<u>Structure</u> <u>Structure 2</u> <u>Structure 3</u> <u>Structure 4</u>
Coherence	AO3	<u>Coherence</u>
Essay writing	AO3	<u>Essays</u>
Quoting	AO1	Quoting
Authorial technique	AO2	<u>Technique</u>
Analysis	AO2 / 3	<u>Analysis</u> <u>Analysis 2</u>
Context	AO1	<u>Context</u>

Deepening your Learning

The activities below have been designed to enhance your learning from this year. If your current working level is Grade 6 or above, you should aim to complete these activities to stretch you further; if your current working level is between Grade 1 and Grade 5, you might choose to complete some of the activities below once you have completed all of the 'Securing your learning' tasks.

Торіс	Working Above Expectation Success Criteria	Activities
Writing an essay	AO3	Essay writing
Analysing poetry	AO2	Analysis
Analysing prose	AO2	Analysis
Analysing Drama	AO2	Analysis

Enrichment

The following activities have been designed to provide students with the opportunity to participate in activities linked to this subject but are outside of the curriculum requirements; these are activities that are fun and are designed to enhance learning for learning's sake!

- Continue to read the novels you feel might be appropriate for your Coursework
- Once you have decided on a novel, try reading another novel by the same author to help you gain further understanding of the author, their style, the context in which they wrote.
- Read around what literary critics have said about your novel, how the novel was received by readers when it was published and anything the author might have said about the novel since it was published.
- Continue to explore poets that you feel might be appropriate for your poetry coursework

- Once you have a feel for your poet, read other poems by that poet to get a sense of style, context and themes.
- Read around what literary critics have said about your poems / poet, how the poetry was received by readers when it was published and anything the poet might have said about their poetry since it was published.
- All of the above will be important in the lead-up to writing your coursework

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Торіс	Curriculum Expectation Success Criteria	Activities
Algebraic Division	I can divide polynomials	Algebraic division
Differentiating polynomials	• I can differentiate polynomials	Differentiation
Integrating polynomials	I can integrate polynomials	Integration Examples
Exponential and Logarithm	I can apply Laws of logarithm	Logarithmic rules
Binomial theorem	 I can expand functions using Binomial theorem 	Binomial theorem

Deepening your Learning

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Торіс	Working Above Expectation Success Criteria	Activities
Trigonometric equations	 I can solve trigonometric equations 	Trigonometric equations
Differentiation	 I can write equation of tangent and normal 	<u>Equation of tangent</u> <u>Equation of normal</u>
Differentiation	 I can find stationary points of a curve 	Stationary points
Integration	 I can find area using integration 	<u>Area under curve</u> <u>Examples</u>
Integration	 I can estimate area using trapezium rule 	<u>Trapezium rule</u>
Discrete Random Variable	• I can find mean and variance of discrete random variable	<u>Mean</u> <u>Variance</u>

Enrichment

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• Read the book on Calculus:

https://ocw.mit.edu/resources/res-18-001-calculus-online-textbook-spring-2005/textbook/

Try the activity:

https://sport.maths.org/content/whats-point-squash https://sport.maths.org/content/high-jumping

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Торіс	Curriculum Expectation Success Criteria	Activities
Principles of Microscopy	 I can explain the principle of microscopy and magnification. 	<u>Video</u> <u>Study Material</u> <u>Test Yourself</u>
Potometer	 I can explain the rate of water uptake through Potometer. 	<u>Potometer</u> <u>Practical Biology</u>
Transport in and out of cells	 I can articulate the effect of osmosis on chipped Potatoes. 	<u>Osmosis</u> <u>Osmosis on chipped Potatoes</u>
Phylogenetic Analysis	 I can observe and analyse the phylogenetic tree. 	<u>Phylogeny</u> Evidence for common ancestry Interactive Understanding
Transport in Plants	 I can observe and investigate on mass transport system in flowering plants. 	<u>Xylem</u> <u>Vascular Bundle</u>

Deepening your Learning

Торіс	Working Above Expectation Success Criteria	Activities
Microscopy and Magnification	 I can decipher the differences between Image size, Actual size and magnification. 	Magnification Try to solve as many as possible!
Beyond Potometer	 I can estimate the rate of transpiration from the plant cutting. 	Attached worksheet at the end of the page. <u>Solve the student sheet</u>
Osmosis	 I can compare the effect of osmosis on plants and animal cell solutions. 	Look for the attachment document at the end of the page. <u>Plant and Animal cell solutions</u>
Recording Variation	 I can plan an investigation of the variables that might affect the growth of Plants. 	Plan the investigation from the provided data: Look for the attachment at the end of the page. <u>Variation in Ivy Plants</u>
Transport in Plants	 I can observe and interpret on microscopic carnations of Vascular bundle in Plants. 	Terrific Tomatoes and their Trichomes

<u>Enrichment</u>

The following activities have been designed to provide students with the opportunity to participate in activities linked to this subject but are outside of the curriculum requirements; these are activities that are fun and are designed to enhance learning for learning's sake!

- Research or provide data from the MMR and autism research of Andrew Wakefield and Hideo Honda (and data on the impact on vaccination rates in the UK) (Use this resource)
- <u>Worth a Read!</u> HIV evolves to be less deadly!
- Create a Mind map on any unit (Unit 1/Unit 2) of your choice covering how they are linked with one another.
- Make your own edible DNA double helix out of sweets (<u>Refer</u> for help).
- <u>Go to</u> and join the Biology Forum to give your inputs on Recent trends in Biology.

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Торіс		Curriculum Expectation Success Criteria	Activities
Balancing Equations		alance equations for unfamiliar reactions reactants and products are specified.	Balancing Equations
Forces between molecules		xplain the existence of these forces en familiar and unfamiliar molecules.	Forces between molecules
Applications of Hess's law	includi reactic	se Hess's law to perform calculations, ng calculation of enthalpy changes for ons from enthalpies of combustion or nthalpies of formation.	Applications of Hess's law
Chemical equilibria and Le Chatelier's principle	qualita tempe	se Le Chatelier's principle to predict itively the effect of changes in rature, pressure and concentration on sition of equilibrium.	<u>Chemical equilibria and Le</u> <u>Chatelier's principle</u>
Equilibrium constant Kc for homogeneous systems		onstruct an expression for Kc, calculate a for Kc and perform calculations involving	Equilibrium constant Kc for homogeneous systems Link 2

Deepening your Learning

Торіс		Working Above Expectation Success Criteria	Activities
Nucleophilic substitution reaction	mecha	utline the nucleophilic substitution nisms of these reactions with the philes OH–, CN– and NH3	Nucleophilic substitution reaction
Infrared spectroscopy	Data Sł bonds,	se infrared spectra and the Chemistry neet or Booklet to identify particular and therefore functional groups, and identify impurities.	Infrared spectroscopy
Electrophilic addition reaction		utline Electrophilic addition reactions s with HBr, H2SO4 and Br2	of <u>Electrophilic addition</u> reaction
Applications of Hess's law	includiı reactio	se Hess's law to perform calculations, ng calculation of enthalpy changes for ns from enthalpies of combustion or nthalpies of formation.	Applications of Hess's law

Bio Fuels	 I can discuss the environmental (including ethical) issues linked to decision making about biofuel use. 	<u>Bio</u> Fuels
	•	

Enrichment

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- Create a weekly log for practising questions based on the topics above but from any other exam board. or
- Create a presentation/ video on how to calculate significant figure & errors.
- Or
- Create an interesting board game (snake & ladders, ludo, monopoly etc) based on any.

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Торіс	Curriculum Expectation Success Criteria	Activities
Measurement and Errors	 I can calculate absolute and percentage uncertainty for various physical quantities. 	<u>Uncertainty</u>
Resolving Force Vectors	 I can determine the resultant vectors by resolving them into horizontal and vertical components. 	Resolving Force vectors
Simple Harmonic Motion	 I can explain the dependence of time period on mass of a spring. 	Mass-Spring System
Motor effect	 I can explain motor effect and apply left hand rule to determine the direction of electric current, force or magnetic field. 	Left hand Rule

Deepening your Learning

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Торіс	Working Above Expectation Success Criteria	Activities
Measurement and errors	 I can plot error bar and determine uncertainty in gradient and Y-intercept 	Error bars in graph
Circular Motion	 I can extend my understanding on translational motion to explain circular motion. 	Angular Variables
Simple Harmonic Motion	 I can determine period and frequency of simple pendulum. 	<u>Pendulum</u>
Magnetic Flux density	 I can apply the equation F = BII to calculate the size of the force due to the motor effect and apply it to a range of situations. 	Magnetic Flux density

Enrichment

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- Can you guess which tank will first? Water Filling Challenge
- Can information travel faster than the speed of light? Give this <u>article</u> a read to know more.

Arabic A Summer Learning Guide

Securing your Learning:

	Curriculum	
	Curriculum	
Торіс	Expectation	Activities
	Success Criteria	
		:اقرأ الرواية المرسلة " <mark>رجال في الشمس</mark> " ، ثم اختر النشاط المناسب لك وأجب عنه
		https://www.bookleaks.com/files/ghassankanafani/12.pdf
		<mark>:النشاط الأول</mark>
		حلل العناصر الفنية للرواية الأدبية "رجال في الشمس"، ثم حدد سمات الشخصيات
		وتأثيرها على الأحداث
		حلل أسلوب الكاتب والألفاظ والعبارات التي استخدمها لدعم فكرته
	أن يحلل المتعلم النصوص	(حلل النص فكريًا من خلال (تحديد الأفكار الرئيسة والفرعية والأدلة الداعمة لها
	الأدبية تحليلاً أدبيًا وفكريًا	المحص المصل حلولي من مصرف المحصانية الوصار المونيسة والعرصية والوقاقة الماهسة فها
	محددًا السمات الفنية	
	.للنص	•
القراءة		<u>Video Link</u>
	أن ينقد المتعلم النصوص	
	الأدبية من خلال أدوات	راجع طريقة النقد الأدبي للنصوص من خلال الرابط
التحليل	النقد والتحليل التي تعلمها	Resource
	أن يحدد المتعلم الفكر	<mark>: النشاط الثاني</mark>
النقد	الرئيسة والجزئية في النص،	
	مستدلاً بالتفاصيل الداعمة	عالج لغة النص من خلال تحديد بعض الكلمات الصعبة وتحليلها لغويا بتحديد المعني
	لكل فكرة	والمضاد ونوع الكلمة والجذر اللغوي والمشتقات من الجذر الواحد
		حدد الفكرة الرئيسة في النص، وهل تتفق مع الكاتب فيها أم لا؟ ولماذا؟
		راجع تحديد الفكرة الرئيسة في النص
		Video Link
		<mark>: النشاط الثالث</mark>
		انقد الرواية الأدبية " <mark>رجال في الشمس</mark> " موظفًا أدوات النقد والتحليل التي تعلمتها،
		وموضحًا دور الشخصيات والأحداث في دعم الفكرة
	أن يكتب المتعلم	النشاط الأول:
	استجابات شخصية على	
	-	
	النصوص الأدبية التي درسها أو قرأها، مراء إ مانام ها	الحالي، مراعيا التحليل الأدبي والفكري، وموظفًا علامات الترقيم بشكل صحيح
	أو قرأها، مراعيا عناصرها الذيبة	t
الكتابة	الفنية	:راجع عناصر الاستجابة الأدبية من خلال الرابط
		<u>Video Link</u>
	ş , , , , , s	
	أن يكتب المتعلم رأيه	يمكنك مراجعة تحليل النصوص الأدبية من خلال الرابط:
	النقدي حول نصوص أدبية	<u>Resource</u>
	درسها أو قرأها	

		<mark>:النشاط الثاني</mark> انقد أسلوب الكاتب في أحد النصوص الأدبية التي تعلمتها خلال العام الدراسي الحالي، ثم .ابد رأيك حول دعم أفكار النص من عدمه
		اكتب نصًا وصفيًا لإحدى الشخصيات التي تأثرت بها في حياتك، مراعيا الوصف الداخلي والخارجي للشخصية، وموظفًا علامات الترقيم والتصاوير البلاغية بشكل مناسب
		:راجع خصائص النص الوصفي من خلال الرابط <u>Resource</u>
		: نموذج لمحاكاة وصف الشخصية
الكتابة	أن يكتب المتعلم نصوصًا وصفية لشخصيات وأماكن، مراعيا جوانب الوصف المختلفة	
		:راجع علامات الإعراب الأصلية والفرعية وإعراب الجملة الاسمية والفعلية
	أن يعرب المتعلم الجملة الاسمية والفعلية إعرابا	Resource
	صحیحًا مستندًا علی ما تعلمه من علامات إعراب	<mark>: النشاط الأول: صوّب الأخطاء النحوية فيما يأتي , مع بيان السبب</mark> المعلمون مخلصان
	أصلية وفرعية	إنّ أبيكٌ رجل كريم
		وصل المسافرين بعد عناء مررت على القادمون من الحج
القواعد النحوية		سلمت على أباك أحمد ٍالكتاب ليوسف
		<mark>:النشاط الثاني: أعرب ما تحته خط فيما يأتي</mark> " ِقال تعالى: " إِنَّ أَبَانَا لَغِي ضَلالٍ مُّبِين َذَهبت إلى بغداد قال تعالى: " إِنَّ لِلْمُتَقِينَ مَفَازًا
	أبن بيظف المتعام القرامات	"قال تعالى: "ُوَالْوَالِدَاتُ يُرْضِعْنَ أَوْلادَهُنَّ حَوْلَيْنِ كَامِلَيْنِ
	أن يوظف المتعلم القواعد النحوية التي تعلمها في مواقف حياتية	العاملون ماهرون <mark>النشاط الثالث:</mark> وظف أسلوب الاختصاص في سرد حدث من حياتك العامة، مراعيا بنية
	مواحف حيانية	النساط الناك. وطف اشتوب الأخلصاص في شرد خذك من حياتك العامة، مراغيا بنية النص السردي، وسلامة اللغة

If your current working level in this subject is between Grade 1 and Grade 5, you should complete the activities as described in the table below. If your current working level is Grade 6 or better, you should identify topics from the table you feel less confident about and complete the relevant activities.

Торіс	Curriculum Expectation Success Criteria	Activities
Abstinence	 I can describe the importance of isti'faf in Islam. I can explain the meaning of isti'faf towards Allah, towards himself and towards people. I can explain when, how and where to show modesty. I can explain the meaning of Isti'faf. I can explain the effects of Isti'faf on individuals. I can explain the effects of Isti'faf on society. 	Create a poster showing the significance of abstinence according to Islam. In a paragraph explain the concept and meaning of isti'faf towards Allah, towards himself and towards people. Do a research work highlighting the effects of Isti'faf on individuals and society. Use the following links for study and information about the above activities: <u>https://dislam.org/commentary/115580-shawq-and-ishtiyaq- joyful-zeal-and-yearning- https://www.gvisalain.com/elearning/wp- content/uploads/2021/01/PA-1-Islamic-note-grade-11.pdf <u>https://www.ghazali.org/works/abstin.htm</u></u>
Manners of dialogue	 I can define what is meant by manners of dialogue. I can explain the manners of dialogue. I can support their answers with divine texts. I can enlist some of the manners and benefits of good listening. I can compare between a good listener and someone who is not. I can create a scenario exemplifying the good manners of dialogue. 	Create a power point explaining the meaning and the importance of manners of dialogue. Write an article highlighting the manners and benefits of good listening. In a poster compare between a good listener and someone who is not. Create a scenario exemplifying the good manners of dialogue. Use the following links for study and information about the above activities: <u>https://www.iccuk.org/media/khutbas/Manners%20of%20Dial</u> ogue%20in%20Islam%20_5-06-09pdf <u>https://www.iccuk.org/media/khutbas/Manners%20of%20Dial</u> ogue%20in%20Islam%20_5-06-09pdf

The methodolog y of Islam in family building	 I can explain the importance of family life in Islam. To explain the responsibilities of a Muslim towards his family. To explain the role of a strong family in the establishment of a strong society. 	Make a chart explaining the importance of family life in Islam. In an article highlight the responsibilities of a Muslim towards his family. Enlist all the points of Prophet's final message highlighting how the Holy Prophet (PBUH) tried to promote moderation and addressed extremism in his Universal message and warned people against divisiveness and conflicts. Make an animated video explaining the role of a strong family in the establishment of a strong society. Use the following links for study and information about the above activities: <u>https://www.iium.edu.my/deed/articles/family_islam/ch04.ht</u> ml <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1071164/</u> https://islamicstudies.info/literature/family_life_in_Islam.htm
Shura in Islam	 I can define Shura. I can describe the importance of Shura. I can link the lesson to seerah of the Prophet (PBUH) and divine revelation. I can describe the qualities of a consultant. I can describe the etiquettes of Shura. I can deduce the benefits of Shura from the Islamic perspective. 	In a colourful poster explain the meaning and the value of shura in Islam. Make a beautiful leaflet highlighting the Prophet's initiatives towards shura for all important decisions. Write a detailed article on the etiquettes of Shura. Use the following links for study and information about the above activities: <u>http://www.alhewar.com/SadekShura.htm</u> <u>https://www.islamiqate.com/3886/what-is-the-role-of-shura- in-an-islamic-polity</u> <u>https://www.whyislam.org/social-ties-2/shura-islamic- approach-to-decision-making/</u>
Financial contracts of Islam	 I can define the meaning of contract according to Islam. I can explore the importance attached to the regulation of financial contracts. I can list down the elements and conditions of a financial contract. 	In a detailed note define the meaning of contract according to Islam. Create a poster exploring the importance attached to the regulation of financial contracts. Write an article determining the elements and conditions of a financial contract.

	Create a power point presentation proving the social and economic benefits of financial contracts in Islam.
	Use the following links for study and information about the above activities:
	https://ijbssnet.com/journals/Vol. 1 No. 2 November 2010/ 14.pdf
	https://www.slideshare.net/Shanileo/im-13355646
	https://blossomfinance.com/posts/key-elements-of-an-islamic- contract

Deepening your Learning

Торіс	Working Above Expectation Success Criteria	Activities
Abstinence	 I can define the abstinence according to Islam. I can explain the importance and the need of abstinence. I can describe the blessings of abstinence. 	 1 - Using the following link, read provided material and prepare a poster showing the main points according to the provided Success Criteria. https://dislam.org/commentary/115580-shawq-and-ishtiyaq-joyful-zeal-and-yearning 2 - Do research work, find out more information including divine texts on the same topic, then write an article on the importance of abstinence in Islam. https://www.gvisalain.com/elearning/wp-content/uploads/2021/01/PA-1-Islamic-note-grade-11.pdf 3 - Create your own video speaking confidently on abstinence in detail. https://www.ghazali.org/works/abstin.htm
Manners of dialogue	 I can explain the importance of observing the manners of dialogue in Islam. I can enlist the manners of dialogue in Islam. I can describe the positive effects of dialogue. 	 1 - Using the following link, read provided material and prepare a poster showing the main points according to the provided Success Criteria. <u>https://www.iccuk.org/media/khutbas/Manners%20of%20Dialogue%20in%20Islam%20_5-06-09pdf</u> 2 - Do research work, find out more information including divine texts on the same topic, then write an article on the importance of manners of dialogue in Islam. <u>https://www.iccuk.org/media/khutbas/Manners%20of%20Dialogue%20in%20Islam%20_5-06-09pdf</u>

		3 - Create your own video speaking confidently on effects of observing the manners of dialogue in detail. <u>https://www.islambasics.com/chapter/etiquette-of-</u> <u>conversation</u>
The methodolo gy of Islam in family building	 I can explain the importance of family life in Islam. I can explain the responsibilities of a Muslim towards his family. I can explain the role of a strong family in the establishment of a strong society. 	 1 - Using the following link, read provided material and prepare a poster showing the main points according to the provided Success Criteria. <u>https://www.iium.edu.my/deed/articles/family_islam/ch04.ht_ml</u> 2 - Do research work, find out more information including divine texts on the same topic, then write an article on the importance of family in Islam. <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1071164/</u> 3 - Create your own video speaking confidently on effects of strong family on society in detail. <u>https://islamicstudies.info/literature/family_life_in_Islam.htm</u>
Shura in Islam	 I can explain the concept of shura in Islam. I can explain the importance of Shura. I can explain the effects of Shura in the stability and safety and security of a society and a country. 	 1 - Using the following link, read provided material and prepare a poster showing the main points according to the provided Success Criteria. http://www.alhewar.com/SadekShura.htm 2 - Do research work, find out more information including divine texts on the same topic, then write an article on the importance of shura in Islam. https://www.islamigate.com/3886/what-is-the-role-of-shura-in-an-islamic-polity 3 - Create your own video speaking confidently on effects of shura on society in detail. https://www.whyislam.org/social-ties-2/shura-islamic-approach-to-decision-making/
Financial contracts of Islam	 I can define the meaning of contract according to Islam. I can explore the importance attached to the regulation of financial contracts. I can determine the elements and conditions of a financial contract 	 1 - Using the following link, read provided material and prepare a poster showing the main points according to the provided Success Criteria. https://ijbssnet.com/journals/Vol. 1 No. 2 November 2010/ 14.pdf 2 - Do research work, find out more information including divine texts on the same topic, then write an article on the importance of financial contracts in Islam. https://www.slideshare.net/Shanileo/im-13355646 3 - Create your own video speaking confidently on the elements and conditions of a financial contract in Islam in detail. https://blossomfinance.com/posts/key-elements-of-an-islamic-contract

<u>Enrichment</u>

The following activities have been designed to provide students with the opportunity to participate in activities linked to this subject but are outside of the curriculum requirements; these are activities that are fun and are designed to enhance learning for learning's sake!

- A well-planned course on Islamic teachings and etiquettes: <u>https://free-islamic-course.org/online-islamic-course</u>
- Click the below links to learn more about Islam in a fun way:
- <u>http://www.islamicplayground.com/Scripts/default.asp</u>
- <u>http://www.islamicplayland.com/</u>
- <u>https://www.learningroots.com/collections/games</u>
- <u>https://www.islamicbookstore.com/boardgames.html</u>
- https://www.islamicvision.co.uk/index.php?route=product/category&path=78_81

If your current working level in this subject is between Grade 1 and Grade 5, you should complete the activities as described in the table below. If your current working level is Grade 6 or better, you should identify topics from the table you feel less confident about and complete the relevant activities.

Торіс		Curriculum Expectation Success Criteria	Activities
Data Representation	 I can understand and explain representation of Data used in Computing. 		Data Representation 1, Data Representation 2, Data Representation 3, Data Representation 4
Computer Systems		derstand Hardware and Software of er System.	<u>Computer Systems</u>
Boolean Logic	 I can un system. 	derstand Boolean logic and binary	Boolean Logic
Logic Gates and Circuits		ntify and draw logic circuits using nditions.	Logic Gates and Circuits 1, Logic Gates and Circuits 2, Logic Gates and Circuits 3, Logic Gates and Circuits 4,
Building blocks of Algorithms	-	plain and use building blocks of m in programming.	Building blocks of Algorithms Building blocks of Algorithms test
Basics of Python	• I can wr	ite basic python programming.	<u>Register and practice</u> <u>Learn Offline</u>

Deepening your Learning

Торіс	Working Above Expectation Success Criteria	Activities
Computer Architecture	 I can understand and explain working of internal components of a computer. 	<u>Computer Architecture 1,</u> <u>Computer Architecture 2</u>
Assembly Language Programming	 I can write Low level language programs. 	Assembly Language Programming
Programming Basics	 I can and understand write Basic Programming Techniques. 	Programming Basics
Advance Programming	 I can write Programs using advance programming functions. 	Advance Programming 1, Advance Programming 2, Advance Programming 3
Understanding Subroutines and Functions	 I can write programs using Subroutines and Functions. 	Subroutines and Functions 1, Subroutines and Functions 2

Computer Networks	 I can understand different Communication and Internet Technologies. 	<u>Computer Networks 1, Computer</u> <u>Networks 2,</u> <u>Computer Networks 3</u>
Security	 I can understand explain various security threats in Computer Systems. 	Watch Videos of each section (Lesson 1 to 7) and complete Quiz in each Section <u>Security</u>

Enrichment

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- CS50's Introduction to Computer Science course from Harvard University
- An introduction to the intellectual enterprises of computer science and the art of programming.
- https://www.edx.org/course/introduction-computer-science-harvardx-cs50x
- Learn to build Video Games using Python
- <u>https://www.freecodecamp.org/news/learn-python-by-building-5-games/</u>
- Learn to Website designing for free which will help you to understand Basics of Web development and Coding Specialization
- https://www.coursera.org/specializations/web-design

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т	opic	Curriculum Expectation Success Criteria	Activities
Spreadsheet	 I can create pir 	vot tables in Excel.	<u>Spreadsheets</u>
Databases	 I understand q Access. I can modify a I can create an 		Use the given self-study workbook to practice tasks. Files are also provided in the same link. Scroll down to Section 11 <u>Databases</u>
Spreadsheet	 I can apply diff functions in Ex 	ferent formula and ccel.	Use the given self-study workbook to practice tasks. Files are also provided in the same link. Scroll down to Section 14 Spreadsheets
Networks	 I can identify c networks. 	lifferent types of	Revise and take test
Expert System		ne advantages and of an expert system.	Go through the topic and complete the activities / research sheets given. Expert System
Spreadsheets	• I can understa visualization a	nd the use of data nd macros.	<u>Spreadsheets</u>

Deepening your Learning

Торіс	Working Above Expectation Success Criteria	Activities
Databases	 I can create advanced reports in Access. 	Watch the tutorial and complete the activity
		<u>Databases</u>
Databases	• I can apply 3 forms of normalization.	<u>Databases</u>
Spreadsheets	I can create pivot tables in Excel.	<u>Spreadsheets</u>
Networks	• I understand the use of TCP/IP model.	<u>Networks</u>
Networks	 I can compare peer to peer and client server networks. 	<u>Networks</u>

Enrichment

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Microsoft Imagine Cup- Make an impact through coding, collaboration, and competition. Innovate with
passion to tackle global issues and bring your idea to life in the Imagine Cup.
https://imaginecup.microsoft.com/en-us/Events?id=0

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Торіс	Curriculum Expectation Success Criteria	Activities
Grammar	• I can use 4 tenses in my writings.	<u>Grammar</u>
Topics learned this year.	• I can add facts and statistics to my essay.	<u>Revision</u>
Topics learned this year.	• I can add facts and statistics to my essay.	<u>Revision</u>
Listening	• I can extract information from audio file.	Listening

Deepening your Learning

The activities below have been designed to enhance your learning from this year. If your current working level is Grade 6 or above, you should aim to complete these activities to stretch you further; if your current working level is between Grade 1 and Grade 5, you might choose to complete some of the activities below once you have completed all of the 'Securing your learning' tasks.

Торіс	Working Above Expectation Success Criteria	Activities
Subjunctive	 I can use subjunctive in my writing. 	<u>Subjunctive</u>
Adverbs	• I can use adverbs in my writing.	<u>Adverbs</u>
Forme active / forme passive	 I can use "forme passive / active" in my writing. 	Forme active / forme passive
Enhance my listening skills	I can understand audio files	https://theidealteacher.com/6- french-listening-websites-to- improve-gcse-skills

Enrichment

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Students can enjoy French movies at Alliance Francaise Oud Metha.

https://www.afdubai.org/cineclub

Students can enjoy "Mixte" French Serie on Amazon prime.

They can also enjoy "Arsen Lupin" on Netflix"

If your current working level in this subject is between Grade 1 and Grade 5, you should complete the activities as described in the table below. If your current working level is Grade 6 or better, you should identify topics from the table you feel less confident about and complete the relevant activities.

Торіс	Curriculum Expectation Success Criteria	Activities
Planning for	• I can outline planning stages before writing an essay.	
Essay Writing	• I can ask question as guid in systematic essay writing.	Planning for Essay Writing
Argumentative Essay	 I can describe features and structure of argumentative essays. I can construct an effective argumentative essay question. 	Argumentative Essay
Synthesis Writing	 I can create a list of writing prompts for synthesis writing. I can explain features and structure of synthesis writing. 	Synthesis Writing
Arguments	 I can describe structure of an argument. I can explain elements of a logical argument. 	

Deepening your Learning

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Торіс	Working Above Expectation Success Criteria	Activities
Arguments	 I can evaluate strengths and weaknesses of arguments. 	<u>Arguments</u>
Assumptions	 I can explain how to detect assumptions. I can discuss impact of assumptions on strength of arguments. 	<u>Assumptions</u>
Claims	I can explain types of claims.I can evaluate validity of claims.	<u>Claims</u>
Conclusion	 I can write a valid and conclusion for my essay. 	Conclusion
Vested Interest	 I can discuss how vested interest weakens arguments in a given context. 	Vested Interest

Enrichment

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• Add activities here

Enrol at Coursera free Online Course: <u>https://www.coursera.org/</u> Course Title: A Law Student's Toolkit

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Торіс	Curriculum Expectation Success Criteria	Activities
Travel and Tourism Overview	 I can define key terminologies in Travel and Tourism Industry. I can explain the historical growth of International Tourism. 	<u>Travel and Tourism</u> Overview
Factors Affecting Tourism	 I can explain political, economic, social. Technological, legal and environmental factors affecting tourism demands. 	<u>Factors Affecting</u> <u>Tourism</u>
Tourist Behaviour	 I can describe causes of changes in tourist behaviour. I can explain how tourism has been affected by the changing tourist's behaviour. 	<u>Tourist Behaviour</u>
Product Differentiation	 I can define relevant terms e.g. product differentiation, Product diversification, product development. I can explain benefits of product differentiation and modification. 	Product Differentiation
I can explain the importance of customer service I can explain the importance of customer service I can describe the characteristics of exceptional customer service and its benefits I can explain how the quality of customer service differentiates a destination I can describe how to recover from service failure I can explain how social media impacts customer service delivery		<u>Customer Service</u>

Deepening your Learning

Торіс	Working Above Expectation Success Criteria	Activities
Product differentiation Case Study	 I can discuss importance of product differentiation to specific destinations. 	Product differentiation Case Study
Customer service in Travel and tourism Industry	 I can discuss different approaches to customer service in different travel and tourism organisations. 	<u>Customer service in Travel and</u> tourism Industry
Assessing Quality of Customer Service	 I can describe methods in measuring quality of customer service. 	Assessing Quality of Customer Service

	 I can evaluate effectiveness of methods in assessing quality of customer service. 	
Internal Customer Satisfaction Case Study	 I can discuss the impact of internal customer satisfaction to customer service quality. 	Internal Customer Satisfaction Case Study

Enrichment

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• Add activities here

Read this published research article on tourism development: https://core.ac.uk/download/pdf/151169048.pdf

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Торіс	Curriculum Expectation Success Criteria	Activities
Business Ownership	I can understand different forms of ownership.	
External Environments	I can explain the impact of external factors on business decisions.	External Environment
Different Stakeholders Groups	I can explain the impact of Shareholders and government on business decisions.	<u>Stakeholders</u>
Decision taking to improve marketing performance.	I can explain importance and impact of setting clear marketing objectives on other functions of the business.	Setting Marketing Objectives
Understanding Markets and customers	I can explain the importance of market research to understand consumer behaviour.	<u>Market Research</u>
Analysing Financial Performance Forecasts and Break-Even Graphs		Financial Statements
Sources of Finance	I can explain several factors that impact the choice of finance for businesses. <u>Factors influencing Finance</u>	

Deepening your Learning

Торіс	Working Above Expectation Success Criteria	Activities
Stock Exchange	 I can understand the concept of market capitalisation. I can analyse influences on share price and the significance of share price changes. I can calculate Market capitalisation. 	 Prepare a hypothetical portfolio with a sum of US \$ 50,000 in any 5 top companies listed in the New York Exchange over a period of 20 working days. Identify the reasons for fluctuations in prices, for example, change of seasons, strikes and accidents, political environment, the spread of an epidemic, international events, etc. Find the value of your investments at the end of 20-day period. Have you made a gain? If not, what could you have done differently? <u>Click Here for Video 1</u> <u>Click here for Video 2</u>

Marketing Plan [An overview of Marketing Mix]	 I can investigate marketing strategies of different products and brands 	Some of the most prominent and sought-after products are Chocolate, Microwave, Hair Dye, Jeans, Toys and Newspaper. Taking any one of the products into consideration, the students will have to gather information on the following parameters. Packaging of the product Selling price to the consumer Promotion or marketing of the product Identify the USP Type/category of product Tagline Channels of distribution
Marketing Mix Product	 I can understand the importance of packaging. I can analyse how packaging can be used as a marketing tool. I can compare changes that have taken place to enhance consumer experience. 	 Take a Timeline of 10 – 15 years. Track the changes witnessed in packaging and economic impact over the last few years in relation to products like fruits and vegetables, plastic/wooden furniture, milk, reuse of packages, packages as a means of advertisement, etc. <u>Click here for Video 1</u> <u>Click here for Video 2</u> <u>Click here for Video 3</u>

<u>Enrichment</u>

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- Reading "SHOE DOG", a book by Phill Knight the owner of NIKE. SHOE DOG provides an unvarnished story of how Phil Knight started Nike and turned it into a £30 billion global company.
- Reading "How Obsessive Leaders Achieve the Extraordinary". What makes great leaders like Jeff Bezos and Elon Musk extraordinary? This book shows leaders and aspiring leaders how obsession can fuel the most incredible success. Advances in any endeavour almost always depend on a small group of individuals who are completely consumed by the goal they're pursuing. When these leaders and their teams are successful, everyone benefits from their singular focus and relentless drive.
- Make a virtual Scrap Book. Go into almost any supermarket and you are likely to find products made by *Proctor & Gamble* and *Unilever*. Both companies have a huge variety of product categories. Collect as many
 images as possible of products that are manufactured by Unilever and Proctor & Gamble. Then comment
 which do you think is bigger of the two.
- Watch *The Founder*, we learn the incredible true story of struggling salesman Ray Kroc, whose fateful encounter with the McDonald brothers changed his life -- and the way we eat food in America.
- Watch *The Wall Street*. A Classic. It unravels a story through the eyes of Bud Fox, an ambitious stockbroker who navigates the economic rollercoaster of Wall Street, adopting the "greed is good" mantra. This movie is a window into corporate finance, portfolio management, investment law principles and capital markets.

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Торіс	Curriculum Expectation Success Criteria	Activities
Business Growth	I can explain concepts relating to Business Growth.	https://app.senecalearning.com/dashboard/class/0on9m2ng5x/assign ments/assignment/3dcafad5-4cb8-457c-8c20-6fd878779f5c
Business Objectiv es	I can understand different Business Objectives.	https://app.senecalearning.com/dashboard/class/0on9m2ng5x/assign ments/assignment/2620537d-50dc-43c3-8a56-759fec218915
Revenue , Costs , Profits	I can examine the nature of Revenue, costs and profits in long run and short run.	https://app.senecalearning.com/dashboard/class/0on9m2ng5x/assign ments/assignment/e877acb9-c956-44f6-bc18-fc8dca86ee28

Deepening your Learning

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Торіс	Working Above Expectation Success Criteria	Activities
Government intervention	I can evaluate various government Intervention methods.	https://app.senecalearning.com/dashboard/class/0on9m2ng5x/a ssignments/assignment/a7a98028-1ebb-4bfe-be28- dbeeb44ddb43
Labour Market	I can analyse concepts associated with labour markets.	https://app.senecalearning.com/dashboard/class/0on9m2ng5x/a ssignments/assignment/74408baa-3f4c-4a05-a542- <u>39da749a0590</u>
Macroeconomi c Policies	I can evaluate Macroeconomic Policies .	https://app.senecalearning.com/dashboard/class/0on9m2ng5x/a ssignments/assignment/008b4a4d-9821-4e08-b275- 47b151d8f122
Measures of Economic Performance	l can explore measures of Economic Performance.	https://app.senecalearning.com/dashboard/class/0on9m2ng5x/a ssignments/assignment/105a80ef-ccba-43c8-8176- <u>115e5366ec9c</u>

Enrichment

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- Watch this video to understand about Paradox of Thrift. <u>https://www.britannica.com/video/186394/thrift-paradox-Keynesian-economics</u>
- Watch this video to understand about the psychology of economic bubbles and its impact on ordinary people

https://www.britannica.com/video/186509/discussion-psychology-market-bubbles

- An interesting site to explore what everyone should know about health and prosperity. <u>https://commonsenseeconomics.com/games-activities-2/</u>
- Explore some unsolved questions in Economics. https://www.thoughtco.com/unsolved-economics-problems-on-wikipedia-1148177
- Research about how the Economy of your country is coping with the Current Pandemic, how efficiently have they managed the needs of the society according to you, what economic measures have been embraced.

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Торіс	Curriculum Expectation Success Criteria	Activities
Memory	I can explain concepts and theories relating to Memory	<u>Seneca - Learn 2x Faster</u> (senecalearning.com)
Social Psychology	I can understand different theories relating to social psychology.	<u>Seneca - Learn 2x Faster</u> (senecalearning.com)
Psychopathology	I can examine the definitions, phobias and depression.	<u>Seneca - Learn 2x Faster</u> (senecalearning.com)
Biopsychology	I can understand different topics relating to biopsychology	<u>Seneca - Learn 2x Faster</u> (senecalearning.com)
Cognitive Psychology	I can understand different theories relating to cognitive psychology	<u>Seneca - Learn 2x Faster</u> (senecalearning.com)
Research methods	I can examine various research topics	<u>Seneca - Learn 2x Faster</u> (senecalearning.com)

Deepening your Learning

Торіс	Working Above Expectation Success Criteria	Activities
Psychology of sleep	I can understand various concepts of sleep.	<u>What would happen if you didn't</u> <u>sleep? - Claudia Aguirre - YouTube</u> <u>The Sleep Wake Cycle: Circadian</u> <u>rhythm - Biological Psychology</u> <u>[AQA ALevel] - YouTube</u> <u>Sleep and Sleep Disorders</u> <u>(Insomnia, Narcolepsy, and More)</u> <u>Mnemonics (Memorable</u> <u>Psychiatry Lecture) - YouTube</u>
Schizophrenia	I can analyse concepts associated with schizophrenia.	2-Minute Neuroscience: Schizophrenia - YouTube Schizophrenia Explained (Includes DSM-5 Criteria & Delusion Examples) - YouTube

		<u>Seneca - Learn 2x Faster</u> (senecalearning.com)
Issues and Debates	I can understand various issues and debates.	<u>Seneca - Learn 2x Faster</u> (senecalearning.com)
Scientific Approaches in psychology	I can explore different scientific approaches in psychology.	<u>Seneca - Learn 2x Faster</u> (senecalearning.com)

<u>Enrichment</u>

The following activities have been designed to provide students with the opportunity to participate in activities linked to this subject but are outside of the curriculum requirements; these are activities that are fun and are designed to enhance learning for learning's sake!

• Watch "Of Two Minds"

Of Two Minds is an award-winning feature documentary that explores the lives, struggles and successes of three unique and captivating people living with bipolar disorder in America today. It provides an intimate, sometimes painful look at those who live in the shadows of this disorder, showing what it's like to live every day with a mood that swings to the highest highs and the lowest lows.

• Watch "Light in the Darkness"

It is a documentary dedicated to illuminating Post-Traumatic Stress Disorder. By combining the expertise of neurologists, psychologists, and other experts, with the experiences of survivors and their families, this documentary reintroduces PTSD to the (inter)national conversation at a time when trauma and mental health are meant to take centre stage.