



Subject	Focus	Activities	Useful website
Arabic	TOPIC:		
	مراجعة على أنواع التشبيه والاستعارة	ارسم خريطة ذهنية موضحاً فيها انواع التشبيه مع التمثيل	
	Learning objectives:	<ul> <li>عبر عن المواقف بجمل من إنشائك تحوي التشبيه</li> </ul>	https://www.youtube.com/watch?v=Mat6R0toi
	أن يقارن بين أنواع التشبيهات	مثَّل لكل نوع من أنواع التشبيه.	ឮ
	و التشبيه التمثيلي .	- حول الأمثلة من تشبيه تام أوبليغ إلى تشبيه تمثيلي	
	أن يحلل التشبيه التمثيلي موضحا موطن الجمال فيه.	والعكس.	
	- أن ينتج فقرة تتضمنه <sub>-</sub>	- يفتح المعلم باب الحوار المنظم للاستماع إلى ملاحظات الطلاب حول المفاهيم النحوية التي تعلمو ها	
	* أن يتعرف الاستعارة ويستخدمها في كتابة فقرة	<ul> <li>مثّل لكل من (البدل)</li> </ul>	https://www.youtube.com/watch?v=ZwGIxw4i
	البدل TOPIC	- عمل قطعة ويقوم الطلاب باستخراج (البدل)	<u>kOM</u>
	Learning objectives:	- قم بعمل خريطة ذهنية (البدل)	
	أن يحدد الطالب البدل في الجمل .	- إجراء اختبار ختامي قصير للتأكد من مستوى التعلم لدى الطلاب من خلال ورقة عمل	
	أن يوظف الطالب البدل في فقرة		https://www.youtube.com/watch?v=H4MGzCu
	علامة تعجب TOPIC		<u>UKEs</u>
	Learning objectives:	أن يحلل المتعلم الشخصيات من خلال أفكار ها وأفعالها <u>و</u> أقوالها <u>.</u>	
	<u>أن يحلل المتعلم الشخصيات من خلال أفكار ها وأفعالها _</u> <u>وأقوالها.</u>	- أن يفسر المتعلم الكلمات مستعينًا بالمعجم الورقي <u>والرقي.</u>	





	<u>- أن يفسر المتعلم الكلمات مستعينًا بالمعجم الورقى والرقى.</u> والرقى. - أن يتتبع الأثر الذي يتركه أسلوب الكاتب ؛ لإيصال <u>الفكرة .</u> - أن يحلل المتعلم الأفكار فى القصة .	- أن ينتبع الأثر الذي يتركه أسلوب الكاتب ؛ لإيصال <u>الفكرة .</u> - أن يحلل المتعلم الأفكار في القصة .	
Islamic Studies (Arabs)	مقاصد التشريع الخمسة- الشيخة فاطمة :TOPIC بنت المبارك- منهج الرسول (ص) في الرعاية الصحية	يلتزم بأداب الاسلام في التواصل الآجتماعي يكتب بحثًا عن الاضرار التي تهلك الصحة	https://www.youtube.com/watch?v=t64cEqKIH
Islamic Studies	ALLAH'S MESSENGER & HIS	يكتب موضوعا عن الشيخة فاطمة بنت المبارك أن يحلل مقاصد التشريع الخمسة Write down an essay on the virtues of being polite to others and how the life of	https://www.youtube.com/watch?v=HreJejiqAl
Non Arabs	SOCIAL LIFE FINANCIAL CONTRACTS IN ISLAM To identify the keenness of Prophet (P.B.U.H) on building coherent society.	prophet (P.B.U.H) can help us to improve our behavior towards others society	<u>c&amp;t=6s&amp;ab_channel=MuftiMenk</u>
	To infer a link between communal peace and the		





	<ul> <li>-To learn about the concept of financial system in Islam.</li> <li>- To comprehend the significance of regulating contracts</li> <li>-To analyse the types of contracts in Islam development of Islamic State.</li> </ul>	Record a video on the importance of making contracts according to Islamic ruling and mention the wisdom behind.	
Chemistry	<ul> <li>GROUP 17:</li> <li>To explain the trend in volatility of chlorine, bromine, and iodine.</li> <li>To describe the relative reactivity of the elements as oxidizing agents</li> <li>To describe the relative thermal stabilities of the hydrides in terms of bond energies</li> <li>To describe the reactions of halide ions, chlorine</li> <li>To describe the industrial importance of halogens and their compounds</li> </ul>	<ul> <li>Write the chemical equations of group 17 elements along with the observations</li> <li>Prepare an Infographic poster on the concept of disproportionation</li> <li>Give some real life applications for the uses of halogens</li> <li>Write the chemical equations of group 17 elements along with the observations</li> </ul>	<ul> <li><u>https://pmt.physicsandmathstutor.com/download/Chemistry/A-level/Notes/CIE/AS-Inorganic-Chemistry/Detailed/11.%20Group%2017.pdf</u></li> <li><u>https://www.youtube.com/watch?v=roVAWKmtwU</u></li> <li><u>https://www.youtube.com/watch?v=X54ysz2UtWU</u></li> <li><u>https://www.youtube.com/watch?v=w1DEsls3MD0</u></li> <li><u>https://www.youtube.com/watch?v=pBRx7DvBLBQ</u></li> <li><u>https://www.youtube.com/watch?v=9vEv2010010000000000000000000000000000000</u></li></ul>
	REDOX REACTIONS:	<ul> <li>Prepare an Infographic poster on the concept of</li> </ul>	<ul> <li><u>5Y3h8Jm0l</u></li> <li><u>https://chem.libretexts.org/Bookshelves</u> /Analytical Chemistry/Supplemental M</li> </ul>
	<ul> <li>To calculate oxidation numbers of elements in compounds and ions.</li> </ul>	disproportionation	odules (Analytical Chemistry)/Electroch emistry/Redox Chemistry/Oxidation- Reduction Reactions





<ul> <li>To describe and explain redox processes in terms of electron transfer and changes in oxidation number</li> <li>To use changes in oxidation numbers to help balance chemical equations.</li> </ul>	<ul> <li>Give some real life applications for the uses of halogens</li> <li>Create a checklist for determining the oxidation number of elements in compounds.</li> </ul>	<ul> <li><u>https://alevelchemistry.co.uk/notes/haloalkanes/</u></li> <li><u>https://www.youtube.com/watch?v=D06STGIrBJs</u></li> </ul>
NITROGEN AND SULPHUR:		
To describe and explain: (i) the basicity of ammonia (ii) (ii) the structure of the	<ul> <li>Balancing chemical equations using change in oxidation number.</li> </ul>	
ammonium ion and its formation by an acid-base reaction (iii) the displacement of	<ul> <li>Writing half-equations for species oxidised and species reduced.</li> <li>Cive real life applications of</li> </ul>	
ammonia from its salts	<ul> <li>Give real life applications of redox reactions.</li> </ul>	
To identify the industrial importance of		
ammonia and nitrogen compounds	Investigate ammonium salts	
derived from ammonia.	practically heating them alone	
To explain the environmental	and with a base such as sodium	
consequences of the uncontrolled use of	or calcium hydroxide.	
nitrate fertilisers		
To explain the natural and man-made	Make molecular model of	
occurrences of oxides of nitrogen and	ammonia and the ammonium ion and draw 'dot and cross'	
their catalytic removal from the exhaust gases of internal combustion engines.	diagrams of their bonding.	
gases of internal compustion engines.	and frame of their bornang.	





#### Aim High Progress Study Programme \_ (Year 12) - January \_2022

 To explain the chemistry of halogenoalkanes as exemplified by:

the following nucleophilic substitution reactions :

- hydrolysis, formation of nitriles, formation of primary amines by reaction with ammonia
- the elimination of hydrogen bromide from 2bromopropane
  - To describe the SN1 and SN2 mechanisms of nucleophilic substitution in halogenoalkanes including the inductive effects of alkyl groups
  - To explain that primary halogenoalkanes tend to react via the SN2 mechanism; tertiary halogenoalkanes via the SN1 mechanism and

- Create a quiz on Habers process and contact process.
- Prepare an infographic poster on car exhaust pollution and the effect of catalytic converters.
- Draw a poster on the role of SO2 in acid rain and the reaction of NO2 with SO2 in the atmosphere.

- Create a mind map or table of reactions of halogenoalkanes, including the equations and conditions for each.
- Investigate the kinetics of SN1 and SN2 reactions.
- Solve problems based on equations, to





	secondary halogenoalkanes by a mixture of the two, depending on structure • To interpret the different reactivities of halogenoalkanes • To recognise the concern about the effect of chlorofluoroalkanes on the ozone layer.	<ul> <li>predict a mechanism, SN1 or SN2</li> <li>justify their choice, explaining why it's SN1 or SN2</li> <li>describe the mechanisms with curly arrows etc.</li> <li>To investigate practically the speed that the silver halide precipitates appear when halogenoalkanes are put into ethanolic aqueous silver nitrate, followed by determining the bond energies of the carbonhalogen bond to explain their observations.</li> <li>Create an infographic poster to spread awareness about the effect of chlorofluoroalkanes on the ozone layer.</li> </ul>	
Biology	<ul> <li><u>Nucleic acids and protein synthesis,</u></li> <li><u>Structure and replication of DNA</u></li> <li>To Describe the structure of nucleotides, including the phosphorylated nucleotide ATP</li> </ul>	Below Activities and simulations can be carried out using the given links	<ul> <li><u>http://www.hhmi.org/biointeractive/d</u> <u>na/index.html</u></li> <li><u>https://www.ncbi.nlm.nih.gov/books/</u> <u>NBK26821/</u></li> <li><u>http://www.mrothery.co.uk/genetics/</u> <u>dnanotes.htm#Structure%20of%20DNA</u></li> </ul>





#### Aim High Progress Study Programme \_ (Year 12) - January \_2022

 http://www.bbc.co.uk/schools/g https://youtu.be/Ec2I2caFjMw To describe the structure of RNA https://youtu.be/goERVSWKmGk csebitesize/science/add ocr pre and DNA and explain the https://youtu.be/W4mYwsr9gGE importance of base pairing and 2011/growth development/ge the different hydrogen bonding animations of DNA structure and nesrev1.shtml between bases. replication http://www.yourgenome.org/ac http://accessexcellence.org/AB/GG/ http://www.s-cool.co.uk/a-• tivities/origami-dna level/biology/dna-and-the-genetic-**Replication of DNA** https://geneed.nlm.nih.gov/topi code/revise-it/dna-replication To describe the semihttp://www.thealevelbiologist.co.uk/r c subtopic.php?tid=15&sid=16 conservative replication of DNA eplication-of-dna during interphase http://www.pbslearningmedia.o https://youtu.be/cOw41Xa ulY Gene coding https://youtu.be/guuJ gayk70 ٠ rg/resource/tdc02.sci.life.repro.l To state that a polypeptide is https://youtu.be/mfnDVV518es . coded for by a gene and that a p dnastructure/modeling-dnahttps://youtu.be/TNKWgcFPHqw gene is a sequence of nucleotides http://www.hhmi.org/biointeractive/s structure/ that forms part of a DNA earch?sort by=created&redirect=1&fiel http://www.indiana.edu/~ensiw molecule d biointeractive types%5B0%5D=2670 • To state that a gene mutation is a eb/connections/genetics/div.dna change in the sequence of http://www.learnaboutsma.org/scienc • nucleotides that may result in an .html e/1.html altered polypeptide https://youtu.be/dijqYyFY1GM • To describe the way in which the https://youtu.be/mGgYTdPYQjA nucleotide sequence codes for the amino acid sequence in a http://www.ncbe.reading.ac.uk/ncbe/ • polypeptide with reference to the **PROTOCOLS/DNA/extracting.html** nucleotide sequence for HbA





	<ul> <li>(normal) and HbS (sickle cell) alleles of the gene for the β-globin polypeptide</li> <li>Role of DNA in protein synthesis</li> <li>To describe how the information in DNA is used during transcription and translation to construct polypeptides, including the role of messenger RNA (mRNA), transfer RNA (tRNA) and the ribosomes</li> </ul>		<ul> <li><u>http://learn.genetics.utah.edu/content</u> /<u>labs/extraction/</u></li> <li><u>https://youtu.be/cepY-Qoc5pw</u></li> </ul>
Physics	<ul> <li>Waves         <ul> <li>To understand that energy is transferred by a progressive wave.</li> <li>To analyse and interpret graphical representations of transverse and longitudinal waves.</li> </ul> </li> </ul>	<ul> <li>Describe how to measure the frequency of sound waves using cathode ray oscilloscope</li> <li>Compare the diffraction pattern of water waves and light waves.</li> <li>State the properties of electromagnetic waves.</li> <li>In Young double-slit experiment, state the effect of</li> </ul>	www.acoustics.salford.ac.uk/feschools/waves/c ontents.php https://www.islandphysics.com/waves-and- sound.html





	<ul> <li>To know the experimental arrangement of Young's double slit experiment.</li> </ul>	<ul> <li>-Using slits of narrower</li> <li>width(but the same separation)</li> <li>-Using slits with smaller</li> <li>separation but of same width.</li> </ul>	http://www.physicsclassroom.com/class/light/L esson-3/Young-s-Experiment
Business Studies	Marketing Analyze the importance of effective marketing strategies with real world applications.	<ul> <li>Analyse the benefits to a retailing business of setting marketing objectives</li> <li>Explain ways in which a retailer of sports clothing could attempt to 'add or create value' to the products</li> <li>Outline ways a manufacturer of jeans could use to try to increase market share.</li> </ul>	www.entrepreneur.com/encyclopedia/market -research www.businesscasestudies.co.uk www.tutor2u.net
Accounting	<ul> <li>To analyse the structure of limited companies and the sources of raising capital.</li> <li>To describe the type of businesses that would use of unit, job and batch costing system.</li> <li>To apply costing concepts to make business decisions and recommendations.</li> </ul>	<ul> <li>Prepare a sway presentation analyzing the structure of limited companies which should include the following –</li> <li>Features of limited companies</li> <li>Share capital - meaning of and accounting for</li> <li>Capital and revenue reserves</li> <li>Loan capital</li> </ul>	www.myaccountinglab.com, www.bized.co.uk www.cie.org.uk, http://www.accounting-world.com/ https://www.investopedia.com/ https://study.com/search/text/academy.html? g=accounting#/topresults/accounting





		<ul> <li>Preparation of internal final accounts and balance sheets of limited companies.</li> <li>Present a write up on type of businesses that would use of unit, job and batch costing system.</li> <li>OR</li> <li>Prepare a Ted Ed Flipped Lesson on the topic.</li> </ul>	
Economics	International Trade • To prepare flipped lessons using real world links	<ul> <li>Prepare a student –led lesson on any of the following topics:         <ul> <li>a) Different forms of Trade Integration and their impact</li> <li>b) De-globalisation –is it the new trend?</li> <li>c) The future of the EU and the Euro –will it survive?</li> </ul> </li> <li>Complete the Ted Ed Flipped Lesson on Trade Blocs Ted Ed Link on Trade Blocs</li> </ul>	Text Book by Colin Bamford and Susan Grant www.tutor2u.net www.s-cool.co.uk www.economicshelp.org Newspapers and The Economist





		<ul> <li>https://ed.ted.com/;;on/j4k1sBl</li> <li>j</li> </ul>	
Pure mathematics	<ul> <li>Differentiation <ul> <li>To calculate the gradient at a point on a curve, given its equation</li> <li>To find the equations of the tangent and normal to a curve at a point.</li> <li>To interpret a derivative as a rate of change of one variable with respect to another.</li> <li>To apply derivatives in solving real – world problems</li> <li>To use second derivatives to distinguish minimum and maximum points</li> </ul> </li> </ul>	<ul> <li>Make a list of derivatives of simple functions</li> <li>Research on the applications of differentiation.</li> <li>How do you find maximum and minimum points using differentiation?</li> <li>Make notes to summarize learning that includes solved examples</li> </ul>	https://www.bbc.com/bitesize/guides/zyj77ty /revision/1 https://revisionmaths.com/advanced-level- maths-revision/pure- maths/calculus/differentiation https://www.britannica.com/science/analysis- mathematics/Calculus#ref731796 https://www.intmath.com/applications- differentiation/applications-of-differentiation- intro.php http://www.statistica.com.au/differentiation max_and_min.html





	<b>Topic: Normal Distribution and</b>		
Statistics 1	Permutation and Combinations	Model a situation on normal distribution from a real-life situation.	https://revisionmaths.com/advanced-level- maths-revision/statistics/normal-distribution
	• Solve problems concerning a variable X, where $X \sim N(\mu, \sigma^2)$	Summarise your learning and prepare notes on normal distribution with examples.	https://revisionmaths.com/advanced-level- maths-revision/statistics/permutations-and- combinations
	• Recognise practical situations where the distribution is a suitable model.	Model a situation on permutation and combinations from real life situation.	https://www.youtube.com/watch?v=2tuBREK_
	• Understand the terms permutation and combination, and solve simple problems involving selections	Prepare notes on how to distinguish between permutation and combination using real life situations.	<u>mgE</u> <u>https://www.youtube.com/watch?v=zQAmwgZg</u> <u>Obk</u>
	• Solve problems about arrangements of objects in a line, including those involving repetition and restriction		
Mechanics1	• Evaluate probabilities with the calculations using permutation and combination		
	Energy, Work and Power	Make notes on cases where the motion	https://www.physicsclassroom.com/calcpad/en ergy
	<ul> <li>analyze the concepts of gravitational potential energy and</li> </ul>	may not be linear, e.g. a child on a smooth curved 'slide', where only	





	kinetic energy, and use appropriate formulae	overall energy changes need to be considered.	https://revisionmaths.com/advanced-level- maths-revision/mechanics/work-energy-power
	<ul> <li>understand and use the relationship between the change in energy of a system and the work done by the external forces, and use in appropriate cases the principle of conservation of energy</li> </ul>	solve problems involving the instantaneous acceleration of a car moving on a hill against a resistance.	https://alevelmaths.co.uk/mechanics/work- energy-and-power/
	<ul> <li>use the definition of power as the rate at which a force does work, and use the relationship between power, force and velocity for a force acting in the direction of motion</li> </ul>		
Psychology	Cognitive Psychology	Choose any or preferably all 4 studies and create either of these two,	www.glogster.com www.aniomoto.com
		A Glogster poster with videos, images and text.	www.psychologyabout.com
		A animoto/movie maker video compiling all the studies learnt.	www.s-cool.co.uk
			www.thestudentroom.co.uk/wiki/A- Level Psychology





Sociology	To evaluate the methods used in sociological research	<ul> <li>Practice the essay type questions from the Cambridge Past Papers</li> <li>Research on the different sociological research methods</li> <li>Prepare a power point on them showing the advantages and disadvantages of each of the methods.</li> <li>Practice the essay type questions from the Cambridge Past Papers</li> </ul>	www.sociology.org.uk www.tes.co.uk
English Language	<ul> <li>To practice writing reflective commentary</li> <li>To enhance descriptive writing skills</li> <li>To practice review writing.</li> <li>To revisit theories related to semantic field and lexical field.</li> <li>To evaluate the form, style and language for varied genres.</li> </ul>	Practice review writing by reviewing some books or paintings. Measure the progress using the rubrics and the checklist for review writing. Also write a reflective commentary for the same.	http://study.com/academy/lesson/descriptive- writing-definition-techniques-examples.html https://papers.gceguide.com/A%20Levels/Engli sh%20- %20Language%20AS%20and%20A%20Level%20 %20(9093)/





Art and Design	AO 1/2	Brainstorming a concept with deep intention which is clear for a starting point to develop into imageries. An intention or purpose can come from a brief, proposal or research, while at other times it might begin as an idea or feeling.	www.studentartguide.com
Information Technology	<ul> <li>Theory:</li> <li>Hardware and software <ul> <li>Discussion on user</li> <li>Interfaces</li> <li>Types of software</li> <li>Differentiate between</li> <li>compilers and</li> <li>Interpreters.</li> </ul> </li> </ul>	Activities: Students to create presentations on hardware and software and highlight key points on types of hardware and software.	https://www.cambridgeinternational.o rg/programmes-and- qualifications/cambridge-international- as-and-a-level-information-technology- 9626/
	<ul> <li>Esafety and Heath and safety <ul> <li>describe how personal data can</li> <li>be gathered by unauthorized</li> <li>persons (including: by smishing,</li> <li>vishing, phishing and pharming),</li> <li>and how this might be prevented</li> <li>discuss why Esafety is necessary</li> <li>describe malware issues</li> <li>(including: Trojan horse, worms,</li> <li>spyware, adware, rootkit,</li> </ul> </li> </ul>	Students to work on advanced Database and spreadsheet concepts and Past paper Practice. Describe how typical features found in sound editing software are used in practice • Describe how file sizes depend on sampling rate and sampling resolution.	





1	
malicious bots, ransomware)	
<ul> <li>describe a range of potential</li> </ul>	
health issues that could arise	
from using IT	
<ul> <li>describe a range of safety issues</li> </ul>	
relating to the use of IT	
Practical:	
Database concepts	
·	
Import tables into database	
Queries and Reports'	
Grouped Reports	
<ul> <li>Normalization concepts</li> </ul>	
Dynamic and Static Queries	
Sound and video editing	
<ul> <li>set an aspect ratio – trim a video</li> </ul>	
clip to remove unwanted footage	
– join together video clips –	
create text based slides	
<ul> <li>Describe how typical features</li> </ul>	
found in video editing software	
are used in practice • edit a	
sound clip to meet the	





	requirements of its intended application and audience		
Travel and Tourism	<ul> <li>To analyse the impact of tourism on the destinations and the people who live there.</li> </ul>	<ul> <li>Research on the factors that influence tourist's decision to a destination of your choice. Also evaluate the tourist development in both MEDC's and LEDC's.</li> <li>Practice past papers for Pre - Mock exam preparation.</li> </ul>	Using the Internet, text books, and other sources. Past Paper resource bank
Computer Science	Programing concepts:         • To use a 'count controlled' loop:         - given pseudocode will use the         following structure:         FOR <identifier> ← <value1> TO         <value2> <statement(s)>         ENDFOR         - alternatively:         FOR <identifier> ← <value1> TO         <value2> STEP <value3> <statement(s)>         ENDFOR</statement(s)></value3></value2></value1></identifier></statement(s)></value2></value1></identifier>	Encourage your child to develop a software project to include the following: For example, if the chosen programming language is Python, give a program written in Java. Ask learners to translate the program in the chosen programming language. The result	Commenting programs: <u>http://en.wikibooks.org/wiki/A-</u> <u>level Computing/AQA/Problem Solving, Progr</u> <u>amming, Data Representation and Practical</u> <u>Exercise/Fundamentals of Programming/Com</u> <u>ments</u> Inputs and outputs in programming: <u>http://en.wikibooks.org/wiki/A-</u> <u>level Computing/AQA/Problem Solving, Progr</u> <u>amming, Data Representation and Practical</u>





• to use a 'post-condition' loop:	should be tested to see if it produces	Exercise/Fundamentals of Programming/Inpu
- given pseudocode will use the	the correct output.	<u>t and output</u>
following structure: REPEAT		Operators:
		http://en.wikibooks.org/wiki/A-
		level Computing/AQA/Problem Solving, Progr
		amming, Data Representation and Practical
		Exercise/Fundamentals of Programming/Arith
		metic operators
		www.pp4s.co.uk/main/tu-op-intro.html