The Winchester School
Year 9 - Family Learning Newsletter – October 2020

SUBJECT	FOCUS	ACTIVITIES	WEBSITES
ENGLISH	**TOPIC – Hamlet** **LEARNING OBJECTIVES-** • To make creative connections with the play Hamlet.	Encourage your child to - • Read the summary of Hamlet provided in the link. • Design a theatre or film poster for Hamlet. • Depict an event from the play in the form of a comic strip that if it happened differently, would have changed the entire play. • Create a parody or satire of the play as if it took place now with social networking.	• http://www.sparknotes.com/shakespeare/hamlet/summary/
MATHS EXTENDED	**TOPIC- Algebra** LEARNING OBJECTIVES- • To substitute values in expressions and rearrange formulae. • To expand brackets and simplify expressions. • To factorise given expressions. • To solve linear equations. **TOPIC- Angle properties** LEARNING OBJECTIVES-	Motivate your child to - • Research on real life applications of algebra and present your work with examples. • Collect pictures where polygons are used in real life and make a collage presentation. • Explain the components and common characteristics of regular polygons. • Measure, record and graph the height and wingspan of members of the family.	• https://www.mathsisfun.com/algebra/equation-formula.html • https://www.transum.org/software/SW/Starter_of_the_day/Students/Changing_The_Subject.asp • https://www.bbc.co.uk/education/guides/z8y9jty/revision • https://www.mathopenref.com/polygoninteriorangles.html

	• To recall and apply angle facts of parallel lines, triangle and quadrilateral. • To find missing angles of a polygon. **TOPIC- Statistical representation** LEARNING OBJECTIVES- • To recall and apply concept of bar and pie charts. • To understand and apply concept of scatter diagrams.	• Model the graph by drawing a line of best fit.	• https://www.transum.org/Maths/Activity/Scatter_Graphs/Cartoon.asp
BIOLOGY	**TOPIC-Structure of Chromosome, DNA and Cloning.** **LEARNING OBJECTIVES-** • Describe how variation causes competition for resources, and drives natural selection. • Explain the theories of Lamarck, Wallace and Darwin. • Explain that chromosomes are made of genes containing DNA, and describe the structure of DNA.	• Encourage your child to create an online article or play about the different types of mutations that occur and how they impact genes and chromosomes. • Cloning has been a genetic reality since 1952 and various organisms have been cloned. Ask student to create a PowerPoint presentation on these organisms that addresses how organisms are cloned, the ethical issues behind cloning, and whether you support cloning. • Ask your child to create an online poster board display that shows the structure and function of DNA.	• https://www.bbc.com/bitesize/guides/z36mmp3/revision/1 • https://pmgbiology.com/2014/10/21/dna-structure-and-function-igcse-a-understanding/ • http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/cells/cloningrev1.shtml

	• Assess the work of Watson, Crick, Wilkins and Franklin on DNA structure. • Explain how fertilisation results in each new individual being genetically unique. • Explain how organisms may be artificially cloned.		
PHYSICS	**TOPIC- Refraction and Eye** **LEARNING OBJECTIVES**- • To describe the passage of light through rectangular slab. • To describe and calculate refractive index of a medium. • To learn about the eye and its defects. • To correct the eye defects.	• Ask your child to observe a pencil half submerged in water and research the reason for it. • Encourage the child to understand the importance of eye and how important it is to us. • Research the defects of eye and how they affect our day to day life. How can these defects be corrected?·	• http://hyperphysics.phy-astr.gsu.edu/hbase/geoopt/refr.html • https://www.youtube.com/watch?v=jQDRNb-E-cY • http://www.physicsclassroom.com/class/refrn/Lesson-1/The-Cause-of-Refraction • http://www.chm.bris.ac.uk/webprojects2002/upton/defects_of_the_eye.htm
CHEMISTRY	**TOPIC** - **Atomic structure, Periodic Table and Electron configuration.**	Encourage your child : • Make a 3-D model of an atom choosing any element from the periodic table describing its structure and	• www.kentchemistry.com/links/AtomicStructureLinks.htm

	LEARNING OBJECTIVES	properties of sub-atomic particles (electron, proton and neutron).	• www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/atomic/
	• To outline the structure of an atom and state the properties of a sub-atomic particles of an atom.	• Use the following link to answer the quiz questions on Atomic structure – Test-1 www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/atomic/	• www.chemguide.co.uk/atoms/properties/elstructs.html
	• To understand the concept underlying the arrangement of elements in the periodic table and explain the trends.	• Create any 10 questions from the topic electronic structure of an atom using Kahoot.	• https://www.bbc.com/bitesize/guides/ztv797h/revision/3
	• To show the arrangement of electrons around an atom and able to draw the electronic configuration until 20 elements.	• Research and list the scientists involved in the forming of a periodic table. Identify some of elements required by our human body and identify some of the elements, which have adverse harmful effects on our body.	
		• Research on the real life uses of noble gases and other common elements.·	
ARABIC (Arabs)	**TOPIC -** الحجر الصغير **LEARNING OBJECTIVES** أن يحدد الطالب المعنى الإجمالي للنص أن يحلل النص تحليلًا أدبيًّا	تحليل النص تحليلا أدبيا . - معاني المفردات من المعجم الورقي أو الرقمي . - شرح النص شرحا أدبيا . - تحديد الفكروة الرئيسة والأفكار الداعمة . - تفسير المصطلحات العلمية . - كتابة نص موازي . - تحليل قصة حفنة تمر .	• https://www.youtube.com/watch?v=ci9uYn3BnBY • https://www.albayan.ae/five-senses/culture/2018-10-01-1.3371094

	أن يوضح الدلالات التعبيرية للكلمات في النص **TOPIC -** أدمغتنا تحب القصص **LEARNING OBJECTIVES** أن يحدد الفكرة الرئيسة والأفكار الداعمة في النص أن يفسر مصطلحات علمية في مجال العلوم الإنسانية **TOPIC -** حفنة تمر **LEARNING OBJECTIVES** أن يحلل الطالب الشخصيات من خلال أفكارها وأفعالها وأقوالها، وأقوال الشخصيات الأخرى عنها أن يعرض الأدلة من النص في تحليل الشخصيات **TOPIC** التمييز **LEARNING OBJECTIVES** أن يتعرف الطالب التمييز أن يعربه	- رسم خريطة ذهنية للقصة . - تحليل الشخصيات . - كتابة نهاية أخرى . - كتابة أمثلة للتمييز .	• https://www.facebook.com/1016199078453116/videos/1587326744748379/?__so__=permalink&__rv__=related_videos • https://www.youtube.com/watch?v=UDnAfBfHUxk

ISLAMIC STUDIES (Arabs)	**TOPIC – الزكاة -** **LEARNING OBJECTIVES-** يبين أحكام في الإسلام في الزكاة يستنتج أهمية الزكاة وأثرها على الفرد والمجتمع يلتزم أداء الزكاة لمستحقيها يبين مصارف الزكاة الزكاة الثمانية لمصارف يصمم جدولا يذكر عقاب من يتساهل في إخراج الزكاة يبين أحكام في الإسلام في الزكاة يستنتج أهمية الزكاة وأثرها على الفرد والمجتمع يلتزم أداء الزكاة لمستحقيها يبين مصارف الزكاة الزكاة الثمانية لمصارف يصمم جدولا يذكر عقاب من يتساهل في إخراج الزكاة	الزكاة فيها تجب التي الأموال عن موضوعا يكتب - الزكاة مصارف عن بحثا يكتب يكتب بحثا عن عقوبة مانع الزكاة-	• https://www.youtube.com/watch?v=USFfS9Z-5Pw • https://www.youtube.com/watch?v=WV-jhH9L884
ARABIC (Non- Arabs)	**TOPIC –** وسائل الإعلام **LEARNING OBJECTIVES-** 1- أن يصنف التلاميذ وسائل الإعلام	Encourage your child- • To create videos about the topic on different social media platforms. • To create a TV program to introduce their topic. • To compare between the different social media. • To design social magazine about types of media.	• https://www.youtube.com/watch?v=iP2xR7ZGBII • https://www.youtube.com/watch?v=pk0IW6Drnhk

	2- أن يوضح التلاميذ أهمية وسائل الإعلام 3- أن يقارن التلاميذ بين وسائل الإعلام المختلفة 4 – أن يبدي التلاميذ الرأي في التأثير الإعلامي	• To design posters on the influence of social media.	• https://www.youtube.com/watch?v=Avg2S_iitlI • https://www.youtube.com/watch?v=uyhRkngJ0TI
ISLAMIC STUDIES (Non- Arabs)	**TOPIC – Prayer for certain purposes** **LEARNING OBJECTIVES-** • To elucidate the concept of eclipse, rain and Istikhara prayers. • To analyze the ways to perform these prayers **TOPIC – Truthfulness (Surat Al-Saf)** **LEARNING OBJECTIVES-** • To elucidate the concept and importance of honesty and truthfulness. • To evaluate the positive effect of honesty and truthfulness on our lives **TOPIC – Etiquettes of speaking to elderly and visiting others (Surat Al-Hujurat)** **LEARNING OBJECTIVES-**	Motivate your child to - • Research and Create a PowerPoint on the Wisdom beyond these Salah and the way we perform these prayers. • Research on the significant effects of maintaining this quality in our daily life and on our society. • Create a poster showing what Etiquettes we should follow when we visit and speak to elderly.	• https://www.youtube.com/watch?v=ItrBGNSk5ik • https://www.youtube.com/watch?v=0wo_4zampM • https://www.youtube.com/watch?v=9o0kT3h_C1Q

	• To analyze how to plan and follow etiquette of visiting elders.		
PSHCEE	**TOPIC – Are you A Good Citizen Anti-Social Behaviour** **LEARNING OBJECTIVES-** • To understand how good citizens can create a big impact to the community. • To understand what anti-social behaviour is and why people behave in that way.	• Talk to your child about ways they can be a good citizen in their community. • Talk about with your children about examples of acts of anti-social behaviour.	• http://www.sanchezclass.com/goodcitizen.htm • https://daringtolivefully.com/good-citizen
MORAL EDUCATION	**TOPIC – Ethics in the Context of Communities** **LEARNING OBJECTIVES-** • To discuss student's duties and responsibilities within their family. • To discuss why being part of a community is important.	• Motivate your child to be part of community program. • Encourage your child to carry out their duties and responsibilities at home, in school and in the community.	• https://www.youtube.com/watch?v=k_tgW3gL2pc

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HISTORY	**TOPIC –** World War I **LEARNING OBJECTIVES-** • To examine how European powers (Russia, Germany, France and Britain) got involved in World War I.	• Watch the videos and discuss with the child the events that was to blame for the outbreak of WWI? • Have a debate with your child on - Germany was more to blame than Serbia for the outbreak of World War I	• https://www.youtube.com/watch?v=JEGVcSpfM9k • https://www.johndclare.net/causes_WWI4.htm • https://www.youtube.com/watch?v=0jycVFL8CNM
UAE SOCIAL STUDIES	**TOPIC –** Land and Resources of Africa **LEARNING OBJECTIVES-** • To examine the physical geography of Africa.	• Help your child make a list of resources that we use every day that are from Africa. • Help your child locate the rift valley on the map of Africa and list the countries' that the rift valley runs through.	• https://www.youtube.com/watch?v=nEFybyiLkD0 • https://www.nationalgeographic.org/encyclopedia/africa-physical-geography/
GEOGRAPHY	**TOPIC –** From Rock to Soil **LEARNING OBJECTIVES-** • To examine the difference between landscape and the rock cycle.	• Motivate your child to - • Compare and contrast the landscape of UAE to that of UK. • Write an essay on- How can we prevent destruction of soil while using it? • Visiting the soil museum with your child on a weekend.	• https://www.tes.com/resources/search/?&years=GB%7C0%7C11-14%7C&years=GB%7C0%7C14-16%7C&years=GB%7C0%7C16%2B%7C&subjects=GB%7C0%7CGeography%7C&displayCountry=GB&q=rock%20to%20soil

		• Prepare a questionnaire that you will fill after vising the soil museum	• https://www.tes.com/teaching-resource/rocks-and-soils-teachers-notes-6068412
FRENCH	**TOPIC** – Tu habites où? Qu'est-ce qu'il y a en ville? **LEARNING OBJECTIVES-** • To describe a house in details. • To revise prepositions of place. • To identify different amenities in a town.	Encourage your child to - • Revise the vocabulary describing different parts of the house use the link below: https://www.youtube.com/watch?v=BKLuaH7T_yk&ab_channel=EvaGarc%C3%ADa • Write a small composition (60 – 80) words, decoding the given plan using the vocabularies and prepositions given in class. 	• https://www.french-games.net/frenchlessons?topic=Home%20-%20rooms%20in%20the%20house&level=primary • https://www.youtube.com/watch?v=ms_bjzkKlM0&ab_channel=YouLearnFrench • https://www.francaisfacile.com/exercices/exercice-francais-2/exercice-francais-5847.php • http://www.tv5monde.com/

ICT	**TOPIC – HTML** **LEARNING OBJECTIVES-** • To explore different web development layers. • To distinguish HTML tags and attributes.	• **Encourage** your child to explore the benefits of various types of programming languages and explore on webpages, websites. • **Research** on the educational based websites and. Create a presentation that shows the structure of Html. • **Motivate** your child to explore the websites, web pages and create a basic HTML program.	• https://www.w3schools.com/html/html_basic.asp • https://www.khanacademy.org/computing/computer-programming/html-css
STEAM	**TOPIC – Smart Lighting System** **LEARNING OBJECTIVES-** • To investigate about smart lighting grids and what makes them energy efficient.	• **Encourage** your child to explore the benefits of smart lighting systems and investigate how it is energy efficient. • **Motivate** your child to explore the working of Smart Lighting Systems. • **Research** on the Best Smart Lighting Systems for 2020. Create a presentation that shows the functions of various Smart Lighting Systems and how they are different from each other. • Parents can assist the students to gather the information and complete the presentation.	• https://www.allhomerobotics.com/the-best-smart-lighting-systems/#:~:text=Using%20a%20smart%20lighting%20system,even%20by%20using%20voice%20commands.