



The Winchester School

Year 9 - Family Learning Newsletter – November 2020

SUBJECT	FOCUS	ACTIVITIES	WEBSITES
ENGLISH	<u>TOPIC – Hamlet (Persuasive Speech)</u> <u>LEARNING OBJECTIVES-</u> <ul style="list-style-type: none">To extend understanding of elements of speech writing and to enable learners to write a speech.	<ul style="list-style-type: none">Have a discussion with your child on the current leaders of leading nations.Encourage your child to read or listen to a few speeches by famous people followed by a discussion on what he/she thinks of it.	<ul style="list-style-type: none">35 Greatest Speeches in History.www.ted.com
MATHS EXTENDED	<u>TOPIC- Angle properties</u> <u>LEARNING OBJECTIVES-</u> <ul style="list-style-type: none">Calculate the measures of the missing angles in a triangle and quadrilateral.Calculate the interior and exterior angles of a regular polygon.Calculate the number of sides of a regular polygon when interior or exterior angle is given. <u>TOPIC- Statistical representation</u> <u>LEARNING OBJECTIVES-</u>	<ul style="list-style-type: none">Make a collage presentation based on the angle properties.Explain the components and common characteristics of regular polygons.Explain how to find the sum of the interior angles in a polygon of n sides.Develop an equation that shows the relationship between the number of sides of a polygon and the sum of its interior angles.Explain how the geometry of shapes impacts engineering.Measure, record and graph the height and wingspan of members of the family.	<ul style="list-style-type: none">https://www.mathopenref.com/polygoninteriorangles.htmlhttps://www.transum.org/Maths/Activity/Scatter_Graphs/Cartoon.asphttps://www.youtube.com/watch?v=eb70zNBh8VMhttps://www.bing.com/videos/search?q=scatter+graph&view=detail&mid=86513A59B25B216D2FCB86513A59B25B216D2FC



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	<ul style="list-style-type: none"> Construct bar and pie charts. Identify the correlation of scatter diagrams. Draw the line of best fit. 	<ul style="list-style-type: none"> Model the graph by drawing a line of best fit. Use the equation of the line of best fit to make predictions. 	B&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dscatter%2Bgraph%26FORM%3DHDRSC4
BIOLOGY	<p><u>TOPIC – Variation and Genetics</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none"> Describe how variation causes competition for resources, and drives natural selection. Explain the theories of Lamarck, Wallace and Darwin. <p><u>TOPIC- Structure of Chromosome & DNA</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none"> Explain why it is important for scientists to be able to extract DNA from cells. Explain how fertilization results in each new individual being genetically unique. Explain how some genetic disorders arise. 	<ul style="list-style-type: none"> Encourage students to create an article or play about the different types of mutations that occur and how they impact genes and chromosomes. Students will share the story of evolution and discuss the importance of evolution. Encourage your child to create a 3D model of DNA structure with the materials available at home and explain its function. Discuss with your child the process of fertilization results in each new individual being genetically unique and ask them to create a poster. Motivate your child to research and find out how some genetic disorders arise, ask them to list some of the genetic disorders. Encourage your child to create a power point presentation on the process of cloning. 	<ul style="list-style-type: none"> https://www.bbc.com/bitesize/guides/z36mmp3/revision/1 https://evolution.berkeley.edu/evolutionary/article/0_0_0/medicine_06 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



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	<ul style="list-style-type: none">• Explain how organisms may be artificially cloned & explore the ethical issues around artificial cloning.• Explain the use of gene banks to preserve hereditary material before a species becomes extinct.		
PHYSICS	<p><u>TOPIC- Dispersion</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">• To understand that white light can be split to make a spectrum.• Describe how a spectrum can be produced from white light.• Describe how a spectrum can be produced from white light in terms of wavelength.	<ul style="list-style-type: none">• Ask your child when a rainbow is formed and if there is any similarity with the colours seen in a soap bubble.• Motivate your child to discuss if the shape of the medium has a role to play.• Research on the reasons for spectrum to be formed.• Describe making of spectrum(dispersion). Primary and secondary colors & explain how filters work.• Encourage student to design a dispersion filter with help of CD rom (used one)	<ul style="list-style-type: none">• https://sciencing.com/lightdispersion-experiments-kids-12011389.html• http://www.physicsclassroom.com/class/refrn/Lesson-4/Dispersion-of-Light-by-Prisms• https://www.youtube.com/watch?v=7FI0GZsBhGo



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CHEMISTRY	<p><u>TOPIC- Electron configuration</u></p> <p><u>LEARNING OBJECTIVES</u></p> <ul style="list-style-type: none">• To understand the concept underlying the arrangement of elements in the periodic table and explain the trends.• To draw the arrangement of electrons around an atom and able to write the electronic configuration until 20 elements. <p><u>TOPIC: Formation of Ions:</u></p> <p><u>LEARNING OBJECTIVES</u></p> <ul style="list-style-type: none">• Outline how ionic bonds are formed by the transfer of electrons to produce cations and anions. <p><u>TOPIC: Formulae for compounds.</u></p> <p><u>LEARNING OBJECTIVES</u></p> <ul style="list-style-type: none">• To use criss-cross methods to write the correct formulas for ionic compounds.	<p>Activity:</p> <ul style="list-style-type: none">• Encourage your child to read the context and summarise about Nuclear power plant plans in UAE using the below link. https://en.wikipedia.org/wiki/Nuclear_power_in_the_United_Arab_Emirates• Discuss with your child about the different scientist involved in developing the periodic table and name some of the elements named after the famous scientist.• Talk to your child about the major cations and anions in our body. What does anion do to our body? How are cations helpful?• Encourage your child to list some of the very useful compounds and to write their correct formulas (using criss-cross method).	<ul style="list-style-type: none">• https://en.wikipedia.org/wiki/Nuclear_power_in_the_United_Arab_Emirates• www.bbc.com/news/science-environment-35220823• https://www.bbc.co.uk/bitesize/guides/z37t4j6/revision/1• https://www.bbc.co.uk/bitesize/guides/zq923k7/revision/3• https://www.youtube.com/watch?v=URc75hoKGLY
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<p>ARABIC (Arabs)</p>	<p>TOPIC -</p> <p>المسلم أخو المسلم</p> <p>LEARNING OBJECTIVES-</p> <p>يحلل النص تحليلًا أدبيًا</p> <p>يفسر الكلمات مستنبطًا الدلالات التعبيرية فيه</p> <p>يحدد المعنى الإجمالي للنص</p> <p>TOPIC-</p> <p>خطبة الرسول في حجة الوداع</p> <p>LEARNING OBJECTIVES-</p> <p>يحلل النص تحليلًا أدبيًا</p> <p>يحدد المعنى الإجمالي للنص</p> <p>TOPIC-</p> <p>ضعف الدافعية نحو التعلم</p> <p>LEARNING OBJECTIVES-</p> <p>يكتب نصًا تفسيريًا يعرض فيها وجهة نظره مقدمًا أدلة مقنعة</p> <p>يطبق استراتيجيات البحث عن المادة</p>	<p>يكتب موضوعًا عن خلق الأخوة</p> <p>يكتب موضوعًا يبحث فيه عن صفات وصايا الرسول</p> <p>يكتب موضوعًا تفسيريًا عن أهمية التعليم</p> <p>يكتب نصًا وصفيًا عن جمال فصل الشتاء.</p>	<ul style="list-style-type: none"> • http://www.saaaid.net/Doat/alarbi/32.htm • https://khutabaa.com/khutabaa-section/corncr-speeches/172807 • https://www.thaqfya.com/search-importance-education/ • https://mawdoo3.com/%D9%85%D9%82%D8%A7%D9%84%D9%88%D8%B5%D9%81%D9%8A_%D8%B9%D9%86_%D8%A7%D9%84%D8%B4%D8%AA%D8%A7%D8%A1
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	<p>TOPIC-</p> <p>التشبيه المرسل</p> <p>LEARNING OBJECTIVES-</p> <p>أن يتعرف التشبيه المرسل</p> <p>أن يستخدمه في كتاباته</p>		
ISLAMIC STUDIES (Arabs)	<p>TOPIC –</p> <p>سلامة المجتمع ووحدة أبنائه- الحلال بين- الدين النصيحة</p> <p>LEARNING OBJECTIVES-</p> <p>أن يستنتج آداب التناصح *</p> <p>أن يوضح ثمرات التناصح وأثاره على الفرد والمجتمع -*</p> <p>يوضح أثر النصيحة على الفرد والمجتمع-</p> <p>يبين العلاقة بين الإصلاح والأمن-</p>	<p>كتب بحثا عن المتشبهين من الرجال بالنساء</p> <p>يكتب تقريراً عن فضل الزكاة في الإسلام</p> <p>يكتب بحثاً عن علاقة الصلح بالأمن</p> <p>يكتب موضوعاً عن الحلال والحرام في الإسلام</p> <p>يكتب بحثاً عن العمل الحلال في الإسلام</p> <p>يكتب بحثاً عن النصيحة في الإسلام</p>	<ul style="list-style-type: none">• https://www.youtube.com/watch?v=l2jX9sd0Sp8• https://www.youtube.com/watch?v=F0Gu-fETvYg



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<p>ARABIC (Non- Arabs)</p>	<p>TOPIC – وسائل الإعلام</p> <p>LEARNING OBJECTIVES-</p> <p>1- أن يصنف التلاميذ وسائل الإعلام</p> <p>2- أن يوضح التلاميذ أهمية وسائل الإعلام</p> <p>3- أن يقارن التلاميذ بين وسائل الإعلام المختلفة</p> <p>4- أن يبدي التلاميذ الرأي في التأثير الإعلامي</p>	<ul style="list-style-type: none"> • Encourage students to compare & contrast between different social media. • Design a social magazine about different types of media. • Design posters on the influence of social media on the modern society 	<ul style="list-style-type: none"> • https://www.youtube.com/watch?v=iP2xR7ZGBII • https://www.youtube.com/watch?v=pk0IW6Drnhk • https://www.youtube.com/watch?v=Avg2S_iitlI • https://www.youtube.com/watch?v=uyhRkngJ0TI
<p>ISLAMIC STUDIES (Non- Arabs)</p>	<p>TOPIC – Seven grave sins (Shirk and Black Magic)</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> • To identify the seven grave sins as mentioned in the hadeeth. • To analyze some of the rules of fiqh of these sins in Al Quran. • To examine the reason for calling these wrong-doings grave sins. <p>TOPIC: Allah's name (Al-Adl)</p> <ul style="list-style-type: none"> • To comprehend the importance of Allah's Attributes (Al-Adl) by giving reference from Quran and Sunnah). 	<ul style="list-style-type: none"> • Create a PowerPoint on the consequences of committing these sins on the individual and society. • Research and share how important is the quality of being just on society. 	<ul style="list-style-type: none"> • https://www.youtube.com/results?search_query=The+seven+grave+sins • https://www.youtube.com/watch?v=BxwAz23lgZQ&t=332s



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	<ul style="list-style-type: none">To evaluate the effect of Justice and Forgiveness on society.		
PSHCEE	<p><u>TOPIC – Growth Mindset and Tolerance</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">To discuss how famous people found their success despite their failures.To discuss the importance of tolerance.	<ul style="list-style-type: none">Motivate your children to develop a growth mindset.Encourage your children to be more tolerant in accepting other people's differences.	<ul style="list-style-type: none">https://www.youtube.com/watch?v=EyIF5VUOJc0https://www.youtube.com/watch?v=bdtTgmcN6Xk&t=5s
MORAL EDUCATION	<p><u>TOPIC – Valuing Diversity</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">To demonstrate understanding of diversity and equality in the UAE, and articulate the benefits of diversity.	<ul style="list-style-type: none">Watch the YouTube video provided in the link-discuss with your child how people from different countries work together in harmony.Encourage your child to treat people equally.	<ul style="list-style-type: none">https://www.youtube.com/watch?v=3oXQuDlpHzs



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HISTORY	<p><u>TOPIC – Impact of the WWI</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">• To examine the Impact of World War I on Germany.• To examine the aims and actions of the League of Nations (1920).	<p>Encourage your child to research on -</p> <ul style="list-style-type: none">• The terms of the treaty of Versailles were justifiable' How far do you agree to this statement? Have a debate with your child on - How did USA not joining the League of Nations affect the League's work?	<ul style="list-style-type: none">• Textbook pg. 31, prepared power point presentation, Worksheets.• https://www.youtube.com/watch?v=0jycVFL8CNM https://www.youtube.com/watch?v=U5j0hgj7bug
UAE SOCIAL STUDIES	<p><u>TOPIC – Western African Islamic Civilisations</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">• To examine the contributions of ancient African Kingdoms to human history.	<ul style="list-style-type: none">• Help your child list 5 geographical features that Mansa Musa would have crossed during his journey.	<ul style="list-style-type: none">• UAE SST MOE Work book year 9.
GEOGRAPHY	<p><u>TOPIC – Soil Regeneration</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <p>To analyse the process of soil regeneration.</p>	<ul style="list-style-type: none">• Discuss with your child why worms are called ecosystem engineers.• Help your child choose one of the weathering processes and narrate your journey from a rock to soil through a story or a cartoon strip.	<ul style="list-style-type: none">• https://www.youtube.com/watch?v=jP1qbwSGmNs• https://www.tes.com/teaching-resource/rocks-and-soils-teachers-notes-6068412



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FRENCH	<p><u>TOPIC – Nettoie le monde!</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">• To conjugate Irregular verb: ALLER in the present and past tense; to use verb ALLER in the near future tense.• To use the grammatical structure “Pour + infinitive form” with a range of regular and irregular verbs.• To use “Il faut ...”• To use imperative forms to give commands.• To develop a vocabulary bank related to protection of environment.• To say what you’re going to do to protect the environment.	<ul style="list-style-type: none">• Encourage your child to do a regular work: 15- 20 minutes 4 times a week spent with French will guarantee good progress.• <u>Links to Moral Education</u> Discuss with your child civic and moral obligations to care about the environment. How do we show that we care about the place? Where do we live? Make up a slogan or a motto that could be used for a pro-environmental action.	<ul style="list-style-type: none">• www.french-games.net• www.language-gym.com• www.quizlet.com• www.tv5monde.fr• www.francaisfacile.com• French radio stations: www.cheriefm.fr• http://www.rfm.fr/• http://www.nostalgie.fr/• http://www.voltage.fr/
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ICT	<p><u>TOPIC - System development Life Cycle</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">• To Recommend various methods of researching an existing system.• To Explain about System development life cycle and its application.	<ul style="list-style-type: none">• Encourage your child to research different types of applications of system development life cycle.• Share with your child about real-life examples of different stages of system development life cycle• Motivate your child to create a report on different applications available in the UAE.	<ul style="list-style-type: none">• https://www.youtube.com/watch?v=EzRCgE_juyM• https://www.youtube.com/watch?v=rAR5sbaphwU• https://www.ictlounge.com/html/systems_analysis_and_design_new.htm
STEAM	<p><u>TOPIC – Drum Simulator</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">• SAM labs: To create various projects using Sam labs.• To be able to simulate physical systems using Sam Lab kit• Tasks: To design their own SAM Drum Simulator that will be able to hit a drum at varying degrees of force depending on the set speed.• To design a Smart bell for the hearing impaired.	<ul style="list-style-type: none">• Encourage your child to explore kits and make real life connect to the environment.• Motivate your child to debug and write programs based on an algorithm.	<p>SAM LAB KITS</p> <ul style="list-style-type: none">• https://int.samlabs.com/