



The Winchester School

Year 9 - Family Learning Newsletter – September- 2020

SUBJECT	FOCUS	ACTIVITIES	WEBSITES
ENGLISH	<p>TOPIC : Hamlet</p> <p>LEARNING OBJECTIVES-</p> <p>To introduce students to the play Hamlet and its relevance in the 21st century.</p>	<p>Encourage your child to –</p> <ul style="list-style-type: none"> ✓ Read the summary of Hamlet provided in the link. ✓ With your child research on any adaptation of Hamlet that was filmed or dramatized in your own country. ✓ Watch the adaptation if possible with your child. ✓ Identify and state the differences between the adaptation and the original in terms of plot, characters, setting etc. ✓ How has the shift in the language and setting affected the viewer? 	<p>http://www.sparknotes.com/shakespeare/hamlet/summary/</p>
MATHS (SET 1)	<p>TOPIC: Number</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To differentiate between rational and irrational numbers. ➤ To convert recurring decimals to fractions. ➤ To find original value applying reverse percentage. ➤ To apply simple interest and compound interest formulae. ➤ To calculate the lower and upper bounds and calculate the minimum or maximum area and perimeter. 	<p>Encourage your child to do the following:</p> <ul style="list-style-type: none"> ✓ Challenge themselves with different recurring decimals. Convert them to fractions and check with calculator. ✓ What kind of investment is beneficial for you in the long run? Simple interest or compound interest? Explain with an example. ✓ Write some whole numbers, which are rounded to nearest unit, tens, hundreds or thousands. ✓ Challenge your child to find out the upper and lower bounds of these rounded values. ✓ Now repeat the process with decimal numbers. ✓ Ask them to reason their answers. ✓ Research on the different situations where we need to apply the rules of bounds. 	<p>https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-repeating-decimals/v/convertng-repeating-decimals-to-fractions-1</p> <p>http://www.bbc.co.uk/schools/gcsebitese/maths/number/percentagesrev2.shtml</p> <p>https://www.basic-mathematics.com/simple-vs-compound-interest.html</p>



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	<p>TOPIC: ALGEBRA</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To Change the subject of a complicated formula.➤ To factories difference of squares.➤ To factorise quadratic expression of the form $ax^2 + bx + c$	<ul style="list-style-type: none">✓ Activity: Go through the sale advertisements in magazines/shops; calculate the new price given the percentage change.✓ Compare between prices of properties in your locality over 3 years.<ul style="list-style-type: none">▪ What is the percentage change?▪ Simple interest or compound interest.▪ What kind of investment is beneficial for you in the long run? Explain with an example.✓ Motivate your child to create complicated algebraic formulae and change the subject.✓ Discuss with your child why quadratic equations are applicable in real life scenarios.✓ Create complicated algebraic formulae and change the subject.✓ Discuss why quadratic equations are applicable in real life scenarios.	<p>http://www.explainingmaths.com/what-are-upper-and-lower-bounds.html</p> <p>https://corbettmaths.com/2013/05/28/lower-and-upper-bounds/</p> <p>https://www.mathsisfun.com/algebra/factoring.html</p> <p>http://www.bbc.co.uk/schools/gcsebitesize/maths/algebra/factorisinghirev1.shtml</p> <p>http://www.bbc.co.uk/schools/gcsebitesize/maths/algebra/quadequationshirev1.shtml</p> <p>http://www.bbc.co.uk/schools/gcsebitesize/maths/algebra/formulaehirev1.shtml</p> <p>http://mathonweb.com/help_ebook/html/factoring_2.htm</p>
	<p>TOPIC – Number</p> <p>LEARNING OBJECTIVES-</p>	<ul style="list-style-type: none">✓ Encourage your child to research on real life applications of HCF and LCM and present your work with examples.✓ Create and solve word problems on calculating a percentage and percentage change based on your real life experience.	<p>https://www.mathsisfun.com/greatest-common-factor.html</p> <p>https://www.bbc.co.uk/bitesize/topics/z7kw2/hv</p>



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<p>MATHS EXTENDED</p>	<p>➤ Recall and apply concept of multiples, factors, prime factorisation, square numbers and roots and real numbers(rational/irrational numbers)</p> <p>TOPIC- Fraction and percentages</p> <p>LEARNING OBJECTIVES-</p> <p>➤ Interchange fraction, percentage and decimals</p> <p>➤ Solve sums on percentages and percentage change</p> <p>TOPIC – Four Rules & Directed Numbers</p> <p>LEARNING OBJECTIVES-</p> <p>➤ To be able to solve sums on order of operations and directed numbers</p> <p><u>TOPIC – Estimation</u></p> <p>LEARNING OBJECTIVE –</p> <p>➤ Rounding whole numbers, decimals and rounding to significant figures.</p>	<p>✓ Summarise your learning and make revision notes with rules and examples on rounding, directed numbers and fractions.</p>	<p>https://www.mathsisfun.com/numbers/percentage-change.html</p> <p>https://www.mathwarehouse.com/games/our-games/arithmetic-games/number-balls/</p> <p>https://www.free-training-tutorial.com/negative-numbers-games.html</p> <p>https://www.bbc.co.uk/bitesize/guides/zscq6yc/revision/1</p>
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BIOLOGY	<p>TOPIC : Variation and Genetics</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ Explain the importance of diversity.➤ Explain the difference between continuous and discontinuous variation.➤ Investigate variation within a species.➤ Evaluate the importance of variation in organisms.➤ Understand that offspring from the same parents may show considerable variation.➤ Evaluate the importance of genetic and environmental variation to the survival of the organism.➤ Explain the process of selective breeding.➤ Evaluate the importance of selective breeding, and explore the ethical issues involved.	<p>Encourage your child to do the following-</p> <ul style="list-style-type: none">✓ Create a documentary based on the importance of diversity.✓ Dog breeders engage in selective breeding in order to improve certain dog breeds. Motivate your child to create a brochure that explains this practice and why it is used.✓ Create a poster board display that shows various dominant and recessive traits in a species. Include a cross between two of the species that shows how dominant and recessive traits are passed on to offspring.	<p>http://www.bbc.co.uk/education/guides/z9gk87h/revision</p> <p>http://www.educationquizzes.com/ks3/science/variation-and-classification-01/</p> <p>http://www.dontstoplearning.com/ks3science/9Aa_Genetics_Inheritance_Variation.htm</p>
PHYSICS	<p>TOPIC :Light</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">✓ To understand the similarities and differences between light waves and waves in matter.	<p>Motivate your child to</p> <ul style="list-style-type: none">✓ Watch videos of lightning and thunder to differentiate the speed of sound and wave✓ Encourage to research on why sound cannot hear from sun.✓ Design a KALIDOSCOPE with available materials.✓ Draw ray diagram of reflection and measure angles.✓ Select a range of materials for pupils to sort into transparent, translucent or opaque groups, by shining light from a torch onto them.	<p>http://www.bbc.co.uk/education/guides/zq7thyc/revision/1</p> <p>https://www.youtube.com/watch?v=uvPFJpwuzFM</p> <p>https://www.youtube.com/watch?v=C9NIDtFNvc0</p> <p>https://simpop.org/reflection/reflection.htm</p>



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		<ul style="list-style-type: none"> ✓ Establish that materials reflect or transmit different amounts of light and ask pupils to suggest what has happened to the rest of the light, developing the idea of absorption. <p>Investigate how solar panels which are the energy of future can be designed more effectively, UAE initiation to sustainability.</p>	
<p>CHEMISTRY</p>	<p>TOPIC : Particle nature of Matter</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To outline the properties of the different states of matter (solid, liquid and gas) in terms of the particle model, including gas pressure. ➤ To interpret the phase change graph and explain changes of state in terms of particle model. ➤ To draw the structure of an atom and state the properties of a sub-atomic particles of an atom. ➤ To calculate the sub-atomic particles of an atom of a given element. 	<p>Encourage your child to</p> <ul style="list-style-type: none"> ✓ Compare the different states of matter using scientific key terms (example intermolecular space, intermolecular force, particle arrangement) and give suitable examples. ✓ Read the context and summarise their understanding writing at least 5 points on phase change. <p>https://www.bbc.co.uk/bitesize/guides/z2wmxnb/revision/4</p> <ul style="list-style-type: none"> ✓ Create a model using clay or any recycled material to show the structure of atom, label electron, proton, neutron and discuss to explain why atoms are electrically neutral. ✓ Discuss the periodic table, elements discovered, man-made elements, radio-active elements, noble 	<p>https://www.bbc.co.uk/bitesize/guides/z2wmxnb/revision/1</p> <p>https://www.youtube.com/watch?v=21CR01rlmv4</p> <p>https://www.youtube.com/watch?v=xYU7RSOQZ0U</p> <p>https://www.youtube.com/watch?v=STURzRg7LDQ</p> <p>https://www.youtube.com/watch?v=h6LPAwAmnCQ</p> <p>https://www.youtube.com/watch?v=dRfrvpVdKGM</p> <p>https://www.youtube.com/watch?v=uPkEGAHo78o</p>



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		gases, useful transition elements, reactive group-1 elements etc. and discuss their uses/application in real life.	
ARABIC (Arabs)	<p>TOPIC :</p> <p>مراجعة عامة على ما سبق دراسته " النحو و البلاغة " الأفعال الناسخة والحروف الناسخة التشبيه</p> <p>LEARNING OBJECTIVES-</p> <p>- أن يستخرج المتعلم القواعد النحوية (الأفعال الناسخة والحروف الناسخة) - أن يستخرج التشبيه ويوظفها أن يتذكر الطالب ما سبق دراسته من النحو والبلاغة- - أن يحلّل معاني الحديث - أن يستخلص الرسالة الإنسانيّة التي يدعو لها الحديث.</p>	<p>يقوم الطالب بعمل بحث عن الإمارات مستخدماً الفعل المضارع و توظيف التشبيه في الكتابة يقوم الطالب بعمل بحث عن دور الإمارات في الاهتمام بالأخلاق الحميدة وعمل المبادرات التي تحث على طيب الخلق و التعايش السلمي بين جميع الجنسيات أن يكتب عن بعض القواعد التي تسنها دولة الإمارات للحفاظ على الأخلاق والعادات على الرغم من اختلاف الجنسيات والديانات الوافدة إليها تذكر أسماء عائلتك ثم اكتب خمسة منها للذكور ومثلها للإناث، ثم زنها وزنا صرفيا سليما، واكتشف أي الأوزان الصرفية أكثر انتشارا في عائلتك .</p>	<p>https://www.youtube.com/watch?v=E8idDjfxT-TM https://www.youtube.com/watch?v=LUonRFmVn3I http://www.zhic.ae/ar/Articles/ArticleDetails.aspx?Article=good.manners https://www.youtube.com/watch?v=zgUM-It4Txs</p>



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	<p>- أن يفسر المتعلم الكلمات مستعيناً بالمعجم الورقي والرقمي</p> <p>- أن يستنتج الفكرة الرئيسية للنص والأفكار الفرعية</p> <p>- أن يستخدم الكلمات الجديدة في سياقات تعزز معناها</p> <p>أن يستخرج الصور البيانية من الحديث و أساليب التعبير</p> <p>أن يقارن بين الحديث و حديث ثان من حيث الأسلوب</p> <p>أن يتعرف خصائص البلاغة النبوية</p> <p>- أن يحلل النص الشعري تحليلاً فكرياً ونقدياً وبلاغياً .</p> <p>- أن يوضح الفكر الرئيسية والجزئية فيه .</p> <p>- أن يحدد المعنى المناسب للكلمات متعددة المعاني من خلال السياق.</p> <p>- أن يبين دور الصور الفنية (الاستعارة – التشبيه) ودور المحسنات البديعية (الطباق) في إبراز جمال المعنى</p> <p>- أن يزن الطالب الكلمات وزناً صحيحاً.</p> <p>- أن يقارن بين الأوزان المختلفة.</p>		
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	يستخدم الميزان الصرفي في وزن الكلمات الصحيحة معتلة		
ISLAMIC STUDIES (Arabs)	<p>TOPIC : مع الله ورسوله وولي الأمر السبع الموبقات -الغفور العدل</p> <p>LEARNING OBJECTIVES-</p> <p>يستنتج بعض دلالات الآيات يبين المواقف الواردة في الآيات -يلتزم بشرع الله تعالى وعدم مخالفته يراعي الأدب مع الله تعالى ورسوله= يوضع أن تقوى الله تعالى بفعل أوامره واجتناب نواهيه يعلل سبب تسمية هذه الذنوب بالموبقات</p>	<p>يكتب بحثا عن طاعة الله ورسوله صلى الله عليه وسلم -يكتب بحثا عن الموبقات السبع يكتب بحثا عن عدل الله سبحانه وتعالى</p>	<p>pshtt://www.youtube.com/watch?v=-VbtZfMJtLo</p> <p>https://www.youtube.com/watch?v=DfjJmColWLM</p>
ARABIC (Non- Arabs)	<p>TOPIC : البيئة وقضاياها</p> <p>LEARNING OBJECTIVES-</p> <p>أن يصنف الطالب مكونات البيئة . أن ينشئ الطالب تقريرا عن تلوث البيئة</p>	<p>Along with your child create any one of the following wall magazines, videos, projects, reports or a role play on the environment and measures that can be taken to save the Environment.</p>	<p>https://www.youtube.com/watch?v=McQW1yrKkDs&list=PL0eNR_C2NUuUrZNzXwNdfkDqFzpoXxs60</p> <p>https://www.youtube.com/watch?v=U7CMAeBN7s&list=PL0eNR_C2NUuUrZNzXwNdfkDqFzpoXxs60&index=2</p>



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	<p>أن يصمم الطالب مقالا عن البيئة .</p> <p>أن يصف الطالب شعوره نحو البيئة</p> <p>أن يقارن الطلاب بين البيئات (صحراوية وساحلية وجبلية)</p> <p>أن يناقش الطالب أنواع التلوث.</p> <p>أن يوضح الطالب مخاطر التلوث.</p> <p>أن يقترح الطالب حلولاً لمشكلة التلوث بأنواعها .</p> <p>أن يوضح الطالب دور الإمارات في حماية البيئة.</p> <p>أن يبدي الطالب رأيه في مشكلة المخلفات بأنواعها</p> <p>أن يصمم الطالب لافتات للحفاظ على البيئة.</p> <p>أن ينشئ الطالب حواراً مع مسؤول عن البيئة .</p>		<p>https://www.youtube.com/watch?v=QecVr4NjgcA&list=PLoNR_C2NUuUrZNzxnNdfkDqFzpoXxs60&index=6</p>
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ISLAMIC STUDIES (Non- Arabs)	<p>TOPIC :</p> <ul style="list-style-type: none">➤ In the Presence of Allah, His Prophet and the Ruler.➤ The safety of society and unity of its members <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To interpret the meaning of the ayat in their own words➤ To explain the situations mentioned in some Quranic verses.➤ To apply how to make a decision and etiquette of visiting elders.➤ To apply values and principles embedded in Quranic verses.	<p>Encourage your child to -</p> <ul style="list-style-type: none">✓ Research and create a poster about ayat and infer how you would make a decision in your day-to-day life and etiquette of treating elders and visiting them.	<p>Etiquettes of visiting elders Unity and brotherhood</p>
PSHCEE	<p>TOPIC : Smart Targets</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none">➤ To understand what SMART targets are?➤ To produce SMART targets for yourself at school for every subject.	<ul style="list-style-type: none">✓ Discuss with your child the different smart targets and ask them to show you the smart targets they've done and help them to plan the next steps to achieve these.	<p>https://www.mindtools.com/pages/article/sm-art-goals.htm</p>



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MORAL EDUCATION	TOPIC : Ethics in the Context of Communities LEARNING OBJECTIVES- <ul style="list-style-type: none">➤ To discuss student's duties and responsibilities within their family.➤ To discuss why being part of a community is important.	<ul style="list-style-type: none">✓ Motivate your child to be part of a 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_tgW3qL2pc
HISTORY	TOPIC –Skills Bank LEARNING OBJECTIVES- <ul style="list-style-type: none">➤ To develop skills of observation, analysis, evaluation and communication	<ul style="list-style-type: none">✓ Help your child analyse and interpret different historical sources on the causes of world war1 by watching the video link given.	https://www.youtube.com/watch?v=WD7rWPqfEy4
GEOGRAPHY	TOPIC – From Rock to Soil LEARNING OBJECTIVES- <ul style="list-style-type: none">➤ To identify and analyse the different types of rocks, their formation and components	<ul style="list-style-type: none">✓ Discuss with your child, the types of rocks and minerals found in UAE.✓ Help your child write an article on the climatic conditions in UAE and dominant weathering type	https://www.youtube.com/watch?v=LFob6BY_W_E https://www.youtube.com/watch?v=WOqK6Qicddl
UAE SOCIAL STUDIES	TOPIC – Ottoman Empire LEARNING OBJECTIVES- <ul style="list-style-type: none">➤ To analyse, interpret and draw conclusions from the resource.	<ul style="list-style-type: none">✓ Along with your child watch a video and draw conclusions: Why were the Ottomans so keen to capture Constantinople?	https://www.youtube.com/watch?v=SZ8UWobHA3M



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FRENCH	<p>TOPIC – ``Le monde est à toi``</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To describe the place where I live and compare it with my dream home <p>GRAMMAR :</p> <ul style="list-style-type: none">➤ Verbs ``aller+infinitive`` future tense➤ Les prépositions : ``au,du,de la, à la, à l`, de l`, en face, proche de...➤ The preposition ``y``➤ Question formation➤ Adjectives : gender agreement and position <p>VOCABULARY :</p> <ul style="list-style-type: none">➤ My house, my town: making descriptions➤ Les indicateurs de temps et de lieu (prés de, loin de...)	<p>Encourage your child to</p> <ul style="list-style-type: none">✓ Listen together to a French radio stations while doing household chores.✓ Give a good example making an effort to memories some French vocabulary. Studying foreign languages is proven to be one of the best ways to stimulate brain. <p>http://www.guardian.co.uk/science/2011/feb/18/bilingual-alzheimers-brain-power-multitasking</p> <ul style="list-style-type: none">✓ Make a list of important things in your house / apartment; what would you change in the your place? If you could, would you rather do up your place or change it for a different one?	<p>www.youtube.com (the environment, country, house)</p> <p>www.french-games.net</p> <p>http://www.tv5.org/TV5Site/enseigner-apprendre-francais/accueil_apprendre.php</p> <p>http://energienaction.blogspot.com/p/vocabulaire.html</p> <p>French radio stations :</p> <p>www.cherie.fr</p> <p>http://www.rfm.fr/</p> <p>http://www.nostalgie.fr/</p> <p>http://www.voltage.fr/</p>
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ICT	<p>TOPIC – INPUT , OUTPUT AND STORAGE DEVICES</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To describe the importance and purpose of different types of input, output and storage devices.➤ To explain about risks and benefits with the devices.	<p>Encourage your child to</p> <ul style="list-style-type: none">✓ Research different input, output and storage devices.✓ Share with your child about real-life examples of types of all the computer devices and their purpose.✓ List out the names of brands available of input, output and storage devices in UAE.	<p>https://ictlounge.com/html/inputoutputdevices.htm</p> <p>http://www.igcseict.info/theory/3/index.htm</p> <p>https://courses.lumenlearning.com/informationliteracy/chapter/computer-devices/</p> <p>https://www.slideshare.net/kp_abhinav/input-output-and-storage-devices</p> <p>http://www.igcseict.info/theory/3/index.htm</p>
STEAM	<p>TOPIC –</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To explore Sam Lab and make real life connections	<p>Motivate your child to</p> <ul style="list-style-type: none">✓ Explore the Virtual sam lab kit and make real life connections. Get familiar with Sensors, Motors, Buttons used to make Sam Lab connections.✓ Create a circuit using virtual sam lab blocks (smart lighting, Traffic light simulations)	<p>www.sam labs.com</p>