



The Winchester School

Year 9 - Family Learning Newsletter – March- 2020

SUBJECT	FOCUS	ACTIVITIES	WEBSITES
ENGLISH	<p>TOPIC :Symbolism and Imagery</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To introduce symbolism, imagery and other figurative devices. 	<p>In the light of this learning, as a family,</p> <ul style="list-style-type: none"> ✓ You could create a family portrait on a chart. However each member of the family will be represented by an animal of their choice. Each member will then provide justification and reason for their choice. Help your child do a write up on the explanations. 	<p>https://study.com/academy/lesson/symbolism-imagery-in-literature-definitions-examples.html</p> <p>https://balroop2013.wordpress.com/2018/04/22/symbolism-and-imagery-in-poetry/</p>
MATHS ACCELERATED	<p>MATHS</p> <p>TOPIC: Volume of prisms, cylinder, cone, sphere and hemisphere.</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To explain and calculate the surface area and volume of pyramids, cylinder, cones, sphere and hemispheres ➤ To solve application word problems related to real life scenarios. <p>TOPIC : Averages</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To estimate the mean, median, mode and range for grouped and grouped data <p>TOPIC : Cumulative Frequency</p>	<p>Encourage your child to think of the given situation-</p> <ul style="list-style-type: none"> ✓ Francisco is making an effort to drink more water, and has set a goal of 222 liters per day. He wants to know the volume of the water bottle he takes to school each day. The water bottle, cylindrical in shape has the dimensions of radius 2cm and length of 20cm. What is the volume of Francisco's water bottle? ✓ A 5 inch deep ice-cream cone has a radius of 1 inch. A spherical scoop of ice-cream also has a radius equal to 1 inch. If the ice-cream melts in the cone, will it overflow? ✓ How would you estimate the mean of the driving times of 25 teachers at Winchester school, each 	<p>https://www.khanacademy.org/math/basic-geo/basic-geo-volume-sa/volume-cones/e/volumes-of-cones--cylinders--and-spheres</p> <p>https://www.youtube.com/watch?v=QUBXDa03wIQ</p> <p>https://youtu.be/ScJFtz0fyRc</p>



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	<p>Learning Objectives:</p> <ul style="list-style-type: none">➤ To plot a cumulative frequency curve and use it to find the median and inter quartile range and the percentile from the cumulative frequency graph. <p>TOPIC : Straight Line Graphs</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To solve the equations graphically.➤ To calculate the gradient of a line through the given points and write the equation of the line.➤ To find the coordinates of the midpoints of a line segment and the distance between the two given pair of points	<p>teacher travels either by bus or their own car. If the distribution of the driving times is given. What other measures of averages can be used as a statistical summary when the mean is not the best measure to use?</p> <ul style="list-style-type: none">✓ Research on how Data Science uses cumulative frequency distribution. <p>Think and share your ideas.</p> <ul style="list-style-type: none">✓ While planning the layout of her yard, Laura created a grid system representing her backyard. On the grid, Laura placed the center of a herb garden at the coordinates (3,14) and wants to place a bird bath at the point (7,29). If Laura wants to position the center of a flower garden so that the bird bath is halfway between the herb and flower gardens, at what coordinates should the center of the flower garden be placed. <p>Research - How would you apply the distance formula in land survey?</p> <p>While training for a marathon, you decide to run from your home at E, through the park to C, along the road</p>	<p>https://www.youtube.com/watch?time_continue=369&v=IXPvC8D_ptE&feature=emb_logo</p> <p>https://www.youtube.com/watch?v=zjHfAhcU6kE</p> <p>https://www.youtube.com/watch?v=zlADtyhKIBY</p> <p>https://www.onlinemathlearning.com/cumulative-frequency-table.html</p> <p>https://www.youtube.com/watch?v=zjHfAhcU6kE</p> <p>https://www.youtube.com/watch?v=aveoj7o5FWQ</p> <p>https://www.sophia.org/concepts/midpoint-formula-in-the-real-world</p> <p>https://www.youtube.com/watch?v=otljqzKlnXc</p>
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		<p>D, and then straight back home. How far would you run?</p>	<p>https://www.youtube.com/watch?v=IGov1qPnG3k</p>
<p style="text-align: center;">MATHS EXTENDED</p>	<p>TOPIC – STATISTICS</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To apply the concept of mean, median, mode for grouped data. <p>TOPIC- Inequalities</p> <p>LEARNING OBJECTIVES-</p>	<p>Motivate your child to find the-</p> <ul style="list-style-type: none"> ✓ Average height of students in particular age group ✓ Average BMI in science. ✓ Inequalities used by customers when they decide which item to purchase on sale. For example, two shirts are on sale at Old Navy; one is 20% off, the other is buy one-get one free. Which is the least expensive? <p>Motivate your child to</p> <ul style="list-style-type: none"> ✓ Plan a trip on a budget of \$200. ✓ Choose a place they would realistically like to visit. 	<p>www.mathworksheets4kids.com/inequalities.php</p> <p>http://www.softschools.com/math/algebra/inequalities/</p> <p>https://www.mathsisfun.com/data/frequency-grouped-mean-median-mode.html</p> <p>https://www.bbc.co.uk/bitesize/guides/zwgk2p/revision/5</p>



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	<p>➤ To solve linear inequalities and listing the values for the given inequalities. Then plotting the value for x on graph.</p>	<p>Research the location to complete a spread sheet including</p> <ul style="list-style-type: none"> ✓ Travel expenses (plane, train, rental car, gas) ✓ Lodging expenses ✓ Food expenses (breakfast, lunch, dinner, snack) ✓ Include at least 1 activity ✓ Complete the inequality : travel + lodging + food + activity(s) > or = \$200 	<p>https://www.youtube.com/watch?v=P_c9D6mjGA</p>
BIOLOGY	<p>TOPIC- Co-ordination and response LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ Investigation on measuring the reaction time. ➤ Describe the differences between voluntary and reflex actions <p>TOPIC- Immunity - Vaccination and Diseases LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ Describe what bacteria need to survive. ➤ Analyse bacterial growth data. 	<p>Encourage your child to-</p> <ul style="list-style-type: none"> ✓ Plan and carry out an investigation into the effect of a factor on human reaction time. ✓ Relate the concept of reflex arc & create an infographic poster on the same using few examples. ✓ Describe the requirements needed for bacterial growth. ✓ Research and develop a logistic model to describe bacterial growth. 	<p>https://www.toppr.com/guides/biology/neural-control-and-coordination/reflex-action-and-reflex-arc/</p> <p>https://revisionworld.com/gcse-revision/biology/human-body/immunisation-vaccination</p>
PHYSICS	<p>TOPIC - Heat Transfer LEARNING OBJECTIVES-</p>	<p>Motivate your child to-</p>	



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	<ul style="list-style-type: none"> ➤ To describe methods of heat transfer ➤ To explain methods of reducing heat transfer ➤ To compare and contrast different modes of heat transfer 	<ul style="list-style-type: none"> ✓ Research on ways by which energy can be transferred from one object to another. ✓ Think of ways to retain energy within a system and ways to reduce loss. ✓ Analyze how energy is transmitted from Sun to earth. 	<p>http://www.bbc.co.uk/schools/gcsebitesize/science/aqa_pre_2011/energy/heatrev1.shtml</p> <p>http://coolcosmos.ipac.caltech.edu/cosmic_classroom/light_lessons/thermal/transfer.html</p> <p>http://www.warmup.com/blog/keeping-the-heat-in-how-to-stop-heat-loss-in-your-home</p>
<p style="text-align: center;">CHEMISTRY</p>	<p>TOPIC - Physical and chemical reactions: LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To identify physical and chemical changes, and understand the differences between them. <p>TOPIC - Pattern of reactivity of metals LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To investigate and arrange the reactivity of different metals and carbon in the reactivity series. <p>TOPIC - Heat Energetics of a reaction</p>	<p>Motivate your child to:</p> <ul style="list-style-type: none"> ✓ Read the context and summarise their understanding by writing at least 5 points. <p>https://www.thoughtco.com/physical-and-chemical-changes-examples-608338</p> <ul style="list-style-type: none"> ✓ Share their understanding on exothermic and endothermic reactions. Research on what are the different ways to investigate this type of reaction. ✓ Research on 'why sodium is stored under oil'. ✓ Discuss why rusting of iron is a slow process. Compare its reactivity with that of sodium or group-1 elements. ✓ Identify the reactivity of different metals and arrange it from most reactive to least reactive 	<p>https://www.thoughtco.com/physical-and-chemical-changes-examples-608338</p> <p>https://www.youtube.com/watch?v=eJXL0lrbtgE</p> <p>https://www.youtube.com/watch?v=4HS6D0hTzdg</p>



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	<p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To outline the meaning of exothermic and endothermic reactions.➤ To interpret energy level diagrams showing exothermic and endothermic reactions.	<p>metals. Based on the reactivity of metals discuss with them what are the different ways extracting these metals.</p>	<p>https://www.youtube.com/watch?v=-R2eNZRzq7Q</p>
<p>ARABIC (Arabs)</p>	<p>TOPIC –</p> <p>لن أبكي العباءة التوكيد</p> <p>LEARNING OBJECTIVES-</p> <p>أن يحدد المعنى الإجمالي للنص الشعري . أن يحلل النص الشعري تحليلاً أدبياً . أن يقارن النص مع نص خارجي مقارنة أدبية . أن يبدي رأيه الأدبي في النص الشعري . أن يحلل المتعلم تطور الفكرة الرئيسية أو وجهة النظر من خلال تفاصيل محددة أن يتتبع السرد والوصف والحوار في القصة.</p>	<p>يقوم الطالب بكتابة بحث عن شعر المقاومة الفلسطينية. يبحث في السيرة الذاتية لأحد شعراء المقاومة. يكتب الطالب قصة قصيرة تتضمن فكرة معاناة في أحد جوانب الحياة. يقوم الطالب بكتابة فقرات تتضمن نوعي التوكيد.</p>	<p>https://alqudslana.com/index.php?action=article&id=7119</p> <p>https://www.youtube.com/watch?v=5jugPwDA_d4</p>



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	<p>أن يتعرف المتعلم أنواع التوكيد . أن يوظفها في مواقف حياتية .</p>		
ISLAMIC STUDIES (Arabs)	<p>TOPIC – الأمن والأمان - لا للانتحار</p> <p>LEARNING OBJECTIVES-</p> <p>يتلو الآيات تلاوة صحيحة مجودة</p> <p>يفسر معاني المفردات</p> <p>يوضح أصناف الناس يوم القيامة</p> <p>يوضح مفهوم الأمن في الإسلام</p> <p>يبين أهمية الأمن في حياة الفرد والمجتمع</p> <p>يحدد أهم مجالات الأمن</p> <p>استنتج سبل تحقيق الأمن</p>	<p>يكلف الطالب ببعض التكاليف البيتية ويحرص على الصلاة في أوقاتها وحفظ سورة الواقعة</p> <p>اكتب موضوعا عن خطورة الانتحار</p> <p>اكتب تقريرا عن عن معدلات الانتحار حول العالم وما سببها</p> <p>اكتب موضوعا عن العمل الصالح وآثاره على الفرد والمجتمع</p>	<p>https://www.youtube.com/watch?v=GPTGmkzfk8</p> <p>https://www.youtube.com/watch?v=KIV_8XW8iVw</p>



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<p>ARABIC (Non- Arabs)</p>	<p>TOPIC – بين الطقس والإعلام</p> <p>LEARNING OBJECTIVES- أن يوضح التلاميذ العلاقة بين الطقس والإعلام أن يصمم التلاميذ نشرات جوية على التلفاز أن يخطط التلاميذ برنامجاً تليفزيونياً أن ينشئ التلاميذ مجلة إعلامية وتسميتها</p>	<p>Encourage your child to</p> <ul style="list-style-type: none">✓ Create a poster on the advantages and the disadvantages of the internet.✓ Plan a TV program about different types of media.✓	<p>https://www.youtube.com/watch?v=rd1buVnLkL0 https://www.youtube.com/watch?v=kJFjaqBDgz8 https://www.youtube.com/watch?v=24dw05nPEBI https://www.youtube.com/watch?v=iP2xR7ZGBII https://www.youtube.com/watch?v=Le_wrGXA1oE</p>
<p>ISLAMIC STUDIES (Non- Arabs)</p>	<p>TOPIC –</p> <ul style="list-style-type: none">➤ Permissible (Halal) and (Haram)Forbidden Foods and Drinks➤ A Muslim's right on his brother➤ The Prophet's Method of educating a generation <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To elucidate the types and prohibition of haram food (by referencing Quran & Ahadeeth).➤ To explore the link between science and religion (regarding pork and alcohol by giving example from Quran & Ahadeeth))➤ To evaluate the consequences of consuming haram food. (by giving examples from real life)	<p>Encourage your child to:</p> <ul style="list-style-type: none">✓ Research and create a presentation titled "Guidelines to Halal and Haram food in Islam" Support your answer with rules of fiqh and ayat and Hadeeth.✓ Create a video about the rights on each other and explain the importance of helping each other by giving example from the life of Prophet (P.B.U.H)✓ Create a video showing the importance of educating others and etiquette of teaching them	<p>https://www.youtube.com/watch?v=uMof64A8aNE https://www.youtube.com/watch?v=tBExa qf70Lc</p>



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	<ul style="list-style-type: none"> ➤ To explain and evaluate the importance of helping each other and society. (By referencing ayat & Ahadeeth and by giving examples from Seerah) ➤ To analyze the consequences of not helping others. (By referencing real life) <p>Students will be able to:</p> <ul style="list-style-type: none"> ➤ Explain the concept of education and its important status in Islam. ➤ Explain the foundations and principles of prophet’s education of his companions 		
PSHCEE	<p>TOPIC – Making Choices</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To be able to discover, discuss and apply ideas to make good decisions and reflect on their abilities and areas for improvements. 	<p>Encourage your child to</p> <ul style="list-style-type: none"> ➤ Learn more about themselves, the skills they need in life and work, and how best to develop and demonstrate these as they identify and apply for jobs that are a good fit for their personality, interests and skills. 	<p>https://www.corporatewellnessmagazine.com/article/5-steps-to-good-decision-making</p>
MORAL EDUCATION	<p>TOPIC – Understanding the Growth of Government Laws</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ✓ To understand the state and government of the UAE ✓ To describe the key characteristics of good government. 	<ul style="list-style-type: none"> ✓ Share with your child about the six leaders and how they shaped the UAE. ✓ Encourage your child to learn more about the laws of the UAE 	<p>https://gulfnews.com/going-out/society/six-leaders-and-how-they-helped-shape-uae-1.1937162</p>



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<p>HISTORY</p>	<p>TOPIC- World War II</p> <p>LEARNING OBJECTIVE-</p> <ul style="list-style-type: none">➤ To analyse the short term causes of WWII.➤ To analyse whether Dunkirk was victory or defeat.	<p>Help your child to:</p> <ul style="list-style-type: none">✓ Create a mind map showing the short term factors that cause WWII, Creating a timeline for the events that led to WWII.✓ Research and answer the question: 'Was Dunkirk a victory or defeat?' Explain your answer giving evidences.	<p>https://www.bbc.com/bitesize/guides/z9s9q6f/revision/2</p>
<p>GEOGRAPHY</p>	<p>TOPIC – Our restless planet (Link to TIMSS)</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To examine the causes of earthquakes and volcanic eruptions.➤ To analyse plate movements and understand how they lead to earthquakes, volcanic eruption and even mount building.	<ul style="list-style-type: none">✓ Explain to your child why earthquakes occur with low magnitude in UAE region✓ Watch videos and with your child in order to understand why plate movement causes fold movements? Which plate movement causes earthquake and volcanic eruption? Why?	<p>https://www.esc.cam.ac.uk/research/research-groups/cambridge-volcano-seismology/all-about-earthquakes-and-volcanoes</p> <p>http://volcano.oregonstate.edu/how-are-volcanoes-and-earthquakes-related</p> <p>Internet, Textbook,</p> <p>Mapwww.extremescience.com/PlateTectonicsmap.htm</p>
<p>UAE SOCIAL STUDIES</p>	<p>TOPIC:</p> <p>Leading Sheikhs of the Emirate of Ajman</p> <p>UAE VISION 2021</p> <p>LEARNING OBJECTIVE:</p> <ul style="list-style-type: none">• To investigate the Biographies of the rulers of Ajman• To analyse all the details of the areas of priority in UAE's Vision 2021	<ul style="list-style-type: none">✓ Research along with your child and explain what impact the success of VISION 2021 has on the migration of people to UAE✓ What could be the major challenge that the government will have to deal with for the national agenda 2021 to become a reality? Why do you consider it as a challenge? Can you think of a	<p>Year 9 UAE SST work book</p>



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		<p>solution to overcome this challenge? Help your child present your answer in a mind-map</p> <ul style="list-style-type: none">✓ Help your child create a summary of either Sheikh Rashid bin Humayd Al Nuaimi or Sheikh Humaid bin Rashid Al Nuaimi.	
FRENCH	<p>TOPIC- Shopping</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To plan a role play in a store, facing different daily life situations and problems to solve.	<p>Listening Comprehension</p> <p>http://www.youtube.com/watch?v=M5_zhaI9tbA&feature=youtu.be</p> <p>Reading Comprehension:</p> <p>http://www.podcastfrancaisfacile.com/podcast/2013/05/au-marche-faire-ses-courses-dialogue-fle-francais-apprendre-learn.html</p> <ul style="list-style-type: none">✓ Encourage your child to write a dialogue between a store keeper in the supermarket and themselves shopping, don't forget to use the conditional mode.✓ Challenge : draft a role play following the instructions:✓ Vous avez acheté un pantalon mais il y a un problème. Vous voulez échanger le pantalon. Vous retournez au magasin.	<p>www.tv5monde.org</p> <p>www.language-gym.com</p> <p>www.youtube.com</p> <p>www.francaisfacile.com</p>



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		<ul style="list-style-type: none">✓ Saluez le/la vendeur/vendeuse; et expliquer la situation.✓ Répondez à la question.✓ Expliquez pourquoi vous voulez échanger le pantalon (donnez 2 détails).✓ (Vous voulez essayer le pantalon.) Posez 1 question appropriée.✓ Donnez 1 opinion positive sur le pantalon; et dites pourquoi le pantalon vous plaît.	
ICT	TOPIC –E Safety LEARNING OBJECTIVES- ➤ To discuss the different types of threats to information security and ways to prevent them	Encourage your child to: <ul style="list-style-type: none">✓ Explore the threats to information security.✓ Draw out the solutions to prevent the security threats✓ Create a Prezi presentation based on the outcome of the research.	https://www.geeksforgeeks.org/threats-to-information-security/ https://www.sbrcentre.co.uk/media/1103/final-factsheet-17-how-to-identify-a-security-threat-and-what-action-to-takedocx.pdf



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STEAM	TOPIC –Sam Labs LEARNING OBJECTIVES- ➤ To create Smart lighting systems. Discuss the efficiency of Smart Lighting System compare it with regular lighting systems. ➤ To identify two possible solutions for designing the steering mechanism for Mars Rover.	✓ Encourage your child to explore the website for Sam labs and get familiar with the inputs, outputs and behaviour blocks in Sam space.	www.samlabs.com
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