



The Winchester School

Year 9 - Family Learning Newsletter – June- 2020

SUBJECT	FOCUS	ACTIVITIES	WEBSITES
ENGLISH	<p>TOPIC : Language Analysis</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To enable learners to identify different genres of poetry. ➤ To enable learners to analyse poems. 	<p>Encourage your child -</p> <ul style="list-style-type: none"> ✓ To recollect any poems you have read or studied during your childhood and share the same with your child. ✓ Discuss what made the poem memorable and re-read the same with your ward. ✓ Watch the videos on the links provided and analyse the revisited poem with your child. ✓ Share the newer learning and analysis formed. 	<p>https://www.poemhunter.com</p> <p>https://www.vaniercollege.qc.ca/tlc/tipsheets/reading-and-analyzing/how-to-analyze-a-poem.pdf</p> <p>https://www.youtube.com/watch?v=P4DBWPzLCfE</p> <p>https://www.youtube.com/watch?v=GJsTK_0glbw</p>
MATHS ACCELERATED	<p>TOPIC – Probability</p> <p>LEARNING OBJECTIVE –</p> <ul style="list-style-type: none"> ➤ To calculate the probability of an event ➤ To construct and apply sample space to calculate the probability of an event <p>To apply Venn diagrams to calculate the probability</p>	<p>Discuss with your child-</p> <ul style="list-style-type: none"> ✓ How probability affect in real life. ✓ How is probability related in sports <p>Encourage your child to research on</p> <ul style="list-style-type: none"> ✓ How statistics is applied to daily life, weather forecast (finding what's the probability of rain tomorrow) ✓ Targeted advertisement (what's the probability that this woman has a baby, so that she could be given discount coupons on diapers) <p><u>Google Search:</u></p>	<p>https://www.youtube.com/watch?v=KzfwUEJg18</p> <p>https://www.youtube.com/watch?v=5ol8-iQqPAI</p> <p>https://www.youtube.com/watch?v=e2n1NEsr1NM&t=308s</p> <p>https://www.youtube.com/watch?v=SkidyDQuupA</p>



The Winchester School

Year 9 - Family Learning Newsletter – June- 2020

		<ul style="list-style-type: none">✓ What's the probability that you meant to search about the game of cricket as against the insect called cricket.✓ Analysing the best pan of insurance which suits you and your family the most.	<p>https://www.youtube.com/watch?v=eHfhpAhGdvY</p> <p>https://www.youtube.com/watch?v=1xD7Tb1kdTI</p> <p>https://www.youtube.com/watch?v=Hffg90YpN2M</p>
MATHS EXTENDED	<p>TOPIC – Quadratic Factorisation with Equations</p> <p>LEARNING OBJECTIVE –</p> <ul style="list-style-type: none">➤ To frame quadratic equations from the word problems and evaluate the value of the variables. <p>TOPIC – Symmetry</p> <p>LEARNING OBJECTIVE –</p> <ul style="list-style-type: none">➤ Draw the lines of symmetry and plane of symmetry.➤ Find rotational symmetry for 2D and 3D shapes.	<p>Encourage your child to-</p> <ul style="list-style-type: none">✓ Explain the keywords lines and planes of symmetry and rotational symmetry.✓ Explore number of lines of symmetry and rotational symmetry for different car logos.✓ Frame the mathematical statements for word problems and factorize it to find the value of variable.	<p>https://www.mathsisfun.com/geometry/symmetry-line-plane-shapes.html</p> <p>https://www.mathsisfun.com/geometry/symmetry-rotational.html</p> <p>https://www.onlinemathlearning.com/solving-quadratic-equations.html</p> <p>https://revisionmaths.com/gcse-maths-revision/shape-and-space/transformations</p>



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Year 9 - Family Learning Newsletter – June- 2020

<p>BIOLOGY</p>	<p>TOPIC – Ecology</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ Discuss the advantages of using a pyramid of biomass rather than a pyramid of numbers to represent a food chain.➤ Interpret food chains and food webs in terms of identifying producers and consumers.➤ Illustrate why the transfer of energy from one trophic level to another is inefficient.➤ Explain that chromosomes are made of genes containing DNA, and describe the structure of DNA.➤ To Explore the History of classification.	<p>Motivate your child to-</p> <ul style="list-style-type: none">✓ Debate on the topic: Pyramid of biomass is advantageous than pyramid of numbers to represent a food chain.✓ Research and develop a logistic model of food chain and food web of different habitat✓ Create a presentation on transfer of energy from one trophic level to another.✓ Think of different ways of conserving the natural resources.✓ Create a poster board display / a model that shows the structure and function of DNA.✓ Watch the documentaries on biological classification & evolution and make a report on the same.	<p>https://biology-igcse.weebly.com/ecosystem.html https://www.bbc.com/bitesize/topics/zxfd3k7 https://youtu.be/lnAKlCtJIA4 https://www.nationalgeographic.org/encyclopedia/conservation/ https://pmgbiology.com/2014/10/21/dna-structure-and-function-igcse-a-understanding/ https://www.youtube.com/watch?v=F7tVnQ4tVKk</p>
<p>PHYSICS</p>	<p>TOPIC - Reflection of Light</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To illustrate the formation of image after reflection from a plane mirror by using a ray diagram <p>TOPIC - Refraction</p>	<p>Encourage your child to</p> <ul style="list-style-type: none">✓ Draw a reflection of light and image formed in a plane mirror✓ Research why the path of light changes.✓ Explore the skill of drawing ray diagram for image formation with convex and concave lens.	<p>https://www.youtube.com/watch?v=T5oxC9l_u50 http://www.bbc.co.uk/bitesize/higher/physics/radiation/refraction/revision/1/ http://www.physicsclassroom.com/class/refrn/Lesson-5/Converging-Lenses-Ray-Diagrams http://www.bbc.co.uk/bitesize/ks3/science/energy_electricity_forces/forces/revision/1/</p>



The Winchester School

Year 9 - Family Learning Newsletter – June- 2020

	<p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To recall the laws of refraction <p>TOPIC - Lenses</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To predict the type of image formed by a convex and a concave lens <p>TOPIC – Forces</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> ➤ To recapitulate the concepts and applications of resultant forces. 	<ul style="list-style-type: none"> ✓ Child to understand the importance of eye and how important it is to us. ✓ Create a list of questions based on Bloom's taxonomy to check the understanding of the topic of forces with your peers. ✓ Explore the similarity between the rainbow and the colours seen in a soap bubble. ✓ Discuss with the child if the shape of the medium has a role to play 	<p>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 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</p>
<p style="text-align: center;">CHEMISTRY</p>	<p>TOPIC Balancing equations:</p> <p>LEARNING OBJECTIVES</p> <ul style="list-style-type: none"> ➤ To focus on constructing word equations and simple balanced chemical equations. <p>TOPIC Physical and chemical reactions:</p> <p>LEARNING OBJECTIVES</p>	<p>Along with your child</p> <ul style="list-style-type: none"> ➤ Discuss real-life examples of chemical reactions and try to balance those equation. Examples displacement reactions, extraction of Iron and Zinc using carbon. ➤ Read the context and summarise your understanding writing at least 5 points. 	<p>https://www.thoughtco.com/physical-and-chemical-changes-examples-608338 https://www.wikihow.com/Balance-Chemical-Equations http://www.webqc.org/balance.php https://chem.libretexts.org/Courses/College_of_Marin/Marin%3A_CHEM_114_-_Introductory_Chemistry_(Daubenmire)/05%3A_Molecules_and_Compounds/5.05%3</p>



The Winchester School

Year 9 - Family Learning Newsletter – June- 2020

	<p>➤ To identify physical and chemical changes, and understand the differences between them.</p> <p>Revision</p> <p>Heat Energetics of a reaction</p> <p>➤ To recall the meaning of exothermic and endothermic reactions.</p> <p>➤ To recall to interpret energy level diagrams showing exothermic and endothermic reactions.</p> <p>Formulae for compounds.</p> <p>➤ Deduce the formulae of ionic compounds (including oxides, hydroxides, halides, nitrates, carbonates and sulphates) given the formulae of the constituent ions.</p>	<p>https://www.thoughtco.com/physical-and-chemical-changes-examples-608338</p> <p>✓ List the real life uses of various compounds example salts, acids, fertilizers and write its correct formulas.</p> <p>✓ Discuss some of the compounds or gases which are covalent compounds example CO₂ and writes its correct formulas.</p> <p>✓ Discuss with your child to give examples of exothermic and endothermic reactions and represent it by energy level diagram.</p>	<p>A Writing Formulas for Ionic Compounds</p> <p>https://www.youtube.com/watch?v=4HS6D0hTzdg</p>
ARABIC (Arabs)	<p>TOPIC – دراسة رواية عساكر قوس قزح</p> <p>LEARNING OBJECTIVES-</p> <p>يحدد الطالب الفكرة الرئيسة في كل فصل من فصول</p>	<p>يقوم الطالب بكتابة مقدمة قصة محددًا صفات الشخصيات واصفًا الزمان والمكان</p> <p>يستكمل الطالب كتابة قصته مستخدمًا العناصر الفنية.. للقصّة</p>	<p>https://xeber24.org/archives/202446</p>



The Winchester School

Year 9 - Family Learning Newsletter – June- 2020

	الرواية يحدد الفكرة التي تؤدي إلى تطور الحدث في كل فصل يحدد صفات الشخصيات الخارجية والنفسية		
ISLAMIC STUDIES (Arabs)	TOPIC – التقليد الأعمى - سورة الواقعة LEARNING OBJECTIVES- يوضح مفهوم التقليد يبين موقف الإسلام من التقليد الأعمى يحدد أسباب انتشار التقليد الأعمى يميز بين أنواع التقليد الجيد والتقليد السيئ يستنتج مخاطر التقليد على الفرد والمجتمع يحدد أعمال وصفات المقربون	يكتب موضوعا عن آثار التقليد دون وعي كتب عن قدرة الله تعالى في الكون	https://www.youtube.com/watch?v=uE5oZgabllE https://www.youtube.com/watch?v=Fg3AHS5Jw24 https://www.youtube.com/watch?v=ibv02oTm2Z8
ARABIC (Non- Arabs)	TOPIC – الصحة الاهداف: ان يصف التلاميذ عادات صحية مفيدة LEARNING OBJECTIVES- أن يقارن التلاميذ بين عادات صحية مفيدة وعادات صحية غير مفيدة	✓ Motivate your child to create a healthy diet chart and compose a dialogue about the healthy regime. ✓ Encourage your child to create posters about the healthy habits	https://www.youtube.com/watch?v=5XiH9B0EXEg https://www.youtube.com/watch?v=4Xs5YMSHrVw https://www.youtube.com/watch?v=sw2Q7tER59U



The Winchester School

Year 9 - Family Learning Newsletter – June- 2020

	<p>أن يحلل التلاميذ النص أدبيا أن يوضح التلاميذ النظام الغذائي الجيد</p>	<p>✓ Draw out a comparison between the healthy and unhealthy habits.</p>	<p>https://www.youtube.com/watch?v=flxxPs_suzjw&t=162s</p>
<p>ISLAMIC STUDIES (Non- Arabs)</p>	<p>TOPIC – Al-Hajj- The Pilgrimage</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ Be able to identify the pillars of Hajj, its obligatory duties and Sunnah practices.➤ Be able to explain the virtues of Hajj he Farewell pilgrimage and the Death of Prophet(s)➤ Be able to explain the lessons learned from the Farewell pilgrimage.➤ Be able to identify the attitudes of prophet's companions when hearing of the death of prophet(s)	<p>Encourage your child to research on the pillar of Hajj and The Farewell pilgrimage through some activities like sharing some useful websites and having fruitful discussion in order assess their learning.</p>	<p>https://www.youtube.com/watch?v=us2jw_baPSr8</p>
<p>PSHCEE</p>	<p>TOPIC – Homelessness</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To define homelessness➤ To understand why some people are homeless➤ To describe how a homeless person look like	<p>✓ Talk to your child about the possible reasons why some people are homeless.</p> <p>✓ Encourage your child to share their idea on how to stop homelessness.</p>	<p>https://www.youtube.com/watch?v=uRp_4_Q_ZKTU</p>



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Year 9 - Family Learning Newsletter – June- 2020

MORAL EDUCATION	<p>TOPIC - Resolving conflicts</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ Explore ways to deal with external conflict positively.➤ Identify ways of resolving conflicts	<ul style="list-style-type: none">✓ Encourage your children to talk about ways to resolve conflict with: family members, classmates, and friends.	<p>https://www.youtube.com/watch?v=QJi95mHftE</p>
<p>History</p> <p>Geography</p>	<p>TOPIC – Skills Bank: Fake or real; Bias and reliability</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To develop skills of observation, analysis, evaluation and communication <p>TOPIC - Human Migration</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none">➤ To analyse the migration historical map and describe the story of human migration	<ul style="list-style-type: none">✓ Discuss with your child the effect of anachronism.✓ Motivate your child to make up a description of something in the past that has an anachronism of object, person & language in it.✓ Discuss with your child the impact of migration on our society. Explain two positive and two adverse impact of migration	<p>History textbook year 9</p> <p>Humanities workbook year 9</p>
UAE SOCIAL STUDIES	<p>TOPIC –Living off Earth 's resources: Sustainable Living</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To analyse strategies to reduce/reuse and recycle waste.	<ul style="list-style-type: none">✓ Help your child create an innovative solution on <u>Living off Earth's Resources</u> and by using the <i>cradle to cradle</i> model.	UAE SST Textbook year 9



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Year 9 - Family Learning Newsletter – June- 2020

FRENCH	<p>TOPIC –</p> <ul style="list-style-type: none">➤ Réserver un billet d’avion.➤ Pour prendre un taxi et se déplacer en ville <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">➤ To manage a flight ticket.➤ To develop role plays concerning using different means of transport while travelling as a tourist➤ To develop listening and reading comprehension skills.	<p>Explore the website :</p> <p>https://apprendre.tv5monde.com/fr/aides/vocabulaire-les-moyens-de-transport-et-les-directions</p> <p>With your friends, prepare and record a role play:</p> <ul style="list-style-type: none">✓ Candidat(e): vous-même Professeur: employé(e) a l’agence de voyage/✓ En taxi/ à la gare.✓ Vous voulez réserver des billets de train/ d’avion pour aller à Marseille. Vous allez à la gare/ a l’agence de voyage.✓ Saluez l’employé(e) et dites que vous voulez réserver des places.✓ Dites où vous voulez aller et quel jour vous voudriez voyager.✓ Écoutez l’employé(e) et choisissez l’heure de votre train/ d’avion et dites combien de billets vous voulez.✓ Dites quelle sorte de billets vous voulez (? ?).✓ Remerciez l’employé(e), puis demandez le prix.	<p>www.language-gym.com</p> <p>www.french-games.net</p> <p>www.francaisfacil.com</p> <p>www.quizlet.com</p>
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ICT	TOPIC – Control Applications LEARNING OBJECTIVES- <ul style="list-style-type: none">➤ To demonstrate how computers can control devices automatically.➤ To discuss different examples of devices that can be controlled by computers.	Motivate your child to explore: Control applications, such as turtle graphics, control of lights, buzzers and motors, automatic washing machines, automatic cookers, central heating controllers, burglar alarms, video recorders/players, microwave ovens, computer controlled greenhouse. To research: Latest applications of ICT used in everyday life.	https://www.ictlounge.com/html/control_applications_examples.htm
STEAM	TOPIC –Sam labs LEARNING OBJECTIVES- <ul style="list-style-type: none">➤ To explore Virtual Sam lab blocks and make real life connections	Encourage your child to research on- Virtual SAM SPACE software, workplace, Input - output & behavior blocks, adding & deleting blocks, wire connections, input and output blocks settings. <ul style="list-style-type: none">✓ Introduction to all the offline SAM blocks.✓ Sample program – how to turn ON LED with a button✓ Task- change the colour of LED, add two or more LED to button✓ Working with sensors.✓ Design Traffic signals with counters.	www.samlabs.com