



# The Winchester School

## Year 9- Family Learning Newsletter – April- 2023

SUBJECT	FOCUS	ACTIVITIES	WEBSITES
ENGLISH	TOPIC: PTE Practice LEARNING OBJECTIVES- ➤ To develop inferential skills.	Motivate your child to: ✓ Select and analyse any two articles in the link provided. ✓ Using Bloom's Taxonomy, create questions on the following- <ul style="list-style-type: none"><li>Retrieval questions</li><li>Simple inference</li><li>Context comprehension</li><li>Inference and deduction</li><li>Author's purpose</li><li>Author's style (use of language)</li><li>Organisation of text</li><li>Social, cultural and historical traditions</li></ul>	<a href="https://www.nationalgeographic.com/">https://www.nationalgeographic.com/</a>
MATHS	TOPIC: Inequalities LEARNING OBJECTIVES- ➤ To list integers that satisfy an inequality and solve more complex linear inequalities. ➤ Analyze and evaluate the compound inequality and represent answer on the number line.	Encourage your child to work on the following ✓ Cross-curricular Activity –  Speed limits on the highway, minimum payments on credit card bills, number of text messages you can send each month from your cell phone, and the amount of time it will take to get from home to school. All of these can be represented as mathematical inequalities.	<a href="http://www.mathworksheets4kids.com/inequalities.php">www.mathworksheets4kids.com/inequalities.php</a> <a href="https://www.mathsisfun.com/algebra/inequality-solving.html">https://www.mathsisfun.com/algebra/inequality-solving.html</a> <a href="http://www.softschools.com/math/algebra/inequalities/">http://www.softschools.com/math/algebra/inequalities/</a>



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	<p>➤ Analyse the problem and apply the correct inequality signs when dividing with negative numbers.</p> <p>TOPIC: Graphical Inequalities</p> <p>LEARNING OBJECTIVES-</p> <p>➤ To draw the inequality graph and shade the region that satisfies the given inequalities.</p> <p>➤ Analyze and evaluate problems on shading unwanted region in an inequality.</p>	<p>Often in real life we find ourselves in situations that can be represented mathematically by inequalities. For example, if we want to take a taxi, we may find that the charge is £1.50 standard charge plus 50p per mile. If we only have £20, then we can describe the situation with the following inequality:</p> $£1.5 + £0.5M \leq £20$ <p>✓ Create a booklet on key concepts of the straight-line equation.</p> <p>✓ Investigate the relationship between the independent and dependent variable of a straight lines with different slopes.</p>	<p><a href="https://corbettmaths.com/wp-content/uploads/2013/02/graphical-inequalities-pdf.pdf">https://corbettmaths.com/wp-content/uploads/2013/02/graphical-inequalities-pdf.pdf</a></p> <p><a href="https://mathsmadeeasy.co.uk/gcse-maths-revision/graphical-inequalities-gcse-maths-revision-worksheets/">https://mathsmadeeasy.co.uk/gcse-maths-revision/graphical-inequalities-gcse-maths-revision-worksheets/</a></p> <p><a href="https://www.mathsisfun.com/algebra/graphing-linear-inequalities.html">https://www.mathsisfun.com/algebra/graphing-linear-inequalities.html</a></p> <p><a href="#">Finding slope from graph   Algebra (video)   Khan Academy</a></p> <p><a href="https://www.ezyeducation.co.uk/ezymathsdetails/ezymaths-news/entry/countdown-to-exams-day-48-midpoints-parallel-lines-and-perpendicular-lines.html">https://www.ezyeducation.co.uk/ezymathsdetails/ezymaths-news/entry/countdown-to-exams-day-48-midpoints-parallel-lines-and-perpendicular-lines.html</a></p>
BIOLOGY	<p>TOPIC: Immunity - Vaccination and Diseases</p> <p>LEARNING OBJECTIVES-</p> <p>✓ Describe what bacteria need to survive.</p>	<p>Motivate your child to</p> <p>✓ Describe the requirements needed for bacterial growth.</p> <p>✓ Research and develop a logistic model to describe bacterial growth.</p>	<p><a href="https://revisionworld.com/gcse-revision/biology/human-body/immunisation-vaccination">https://revisionworld.com/gcse-revision/biology/human-body/immunisation-vaccination</a></p>



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	<ul style="list-style-type: none"> <li>✓ Analyse bacterial growth data.</li> <li>✓ Investigate the effect of antibiotics on bacteria.</li> <li>✓ Explain how bacteria can become immune to antibiotics.</li> <li>✓ Evaluate the impact of superbugs on our health.</li> <li>✓ Describe how vaccines were discovered.</li> <li>✓ Explain how vaccines prevent a viral infection.</li> <li>✓ Evaluate the risks involved with vaccination.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Create an animated video to explain how bacteria become resistant to certain antibiotics.</li> <li>✓ Presentation on how vaccines are made.</li> <li>✓ Conduct a survey in your community to find out some diseases caused by microbes.</li> </ul>	<a href="https://amrls.cvm.msu.edu/pharmacology/antimicrobials/effect-on-bacteria">https://amrls.cvm.msu.edu/pharmacology/antimicrobials/effect-on-bacteria</a>  <a href="http://www.immunizeforgood.com/vaccines/how-vaccines-are-made">http://www.immunizeforgood.com/vaccines/how-vaccines-are-made</a>
CHEMISTRY	<p>TOPIC: Rock cycle</p> <p>Balancing equations</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> <li>✓ Describe how three types of rocks are formed.</li> <li>✓ To construct word equations and simple balanced chemical equations</li> </ul>	<p>Discuss with your child</p> <ul style="list-style-type: none"> <li>✓ About the different types of rocks, how are they formed, and give examples.</li> <li>✓ About the real-life uses of different types of rocks.</li> <li>✓ Some real-life examples of chemical reactions and try to balance that equation. Examples are combustion, neutralization, photosynthesis.</li> </ul>	<a href="https://www.bbc.co.uk/bitesize/guides/zwd2mp3/revision/5">https://www.bbc.co.uk/bitesize/guides/zwd2mp3/revision/5</a>  <a href="https://www.wikihow.com/Balancing-Chemical-Equations">https://www.wikihow.com/Balancing-Chemical-Equations</a>  <p>SIMULATION : <a href="#">Balancing Chemical Equations Simulator   SimPop</a></p> <p><a href="https://www.youtube.com/watch?v=bSlqA8nedGQ">https://www.youtube.com/watch?v=bSlqA8nedGQ</a></p>



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			<a href="https://www.youtube.com/watch?v=qquOFYOpdl0">https://www.youtube.com/watch?v=qquOFYOpdl0</a>  <a href="https://www.warrencountyschools.org/balancingequationspractice&amp;key.pdf">balancingequationspractice&amp;key.pdf (warrencountyschools.org)</a>  <a href="https://ahschools.us/MicrosoftWord-BalancingEquationsWorksheet-3-13">Microsoft Word - Balancing Equations Worksheet - 3-13 (ahschools.us)</a>  <a href="https://www.youtube.com/watch?v=kXV7D89S9sc">https://www.youtube.com/watch?v=kXV7D89S9sc</a>
PHYSICS	<p>TOPIC: Kinematics</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> <li>➤ define speed can be determined by measuring distance travelled and time taken</li> <li>➤ Plot and interpret a speed/time or a distance/time graph</li> <li>➤ Recognize from the shape of a speed/time graph when a body is               <ul style="list-style-type: none"> <li>▪ at rest</li> <li>▪ moving with constant speed</li> </ul> </li> </ul>	<p>Motivate your child to</p> <ul style="list-style-type: none"> <li>✓ Research on speed limit restrictions on roads and the needs to have them.</li> <li>✓ Draw speed time graphs and use them to calculate distance and speed.</li> <li>✓ Compare distance time graphs with speed time graphs</li> <li>✓ Discuss about acceleration and how it affects speed.</li> </ul>	<a href="http://www.physicsclassroom.com/class/1DKin/Lesson-1/Speed-and-Velocity">http://www.physicsclassroom.com/class/1DKin/Lesson-1/Speed-and-Velocity</a>  <a href="http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/forces/forcesmotionrev1.shtml">http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/forces/forcesmotionrev1.shtml</a>  <a href="https://www.youtube.com/watch?v=yJkyzzBryEM">https://www.youtube.com/watch?v=yJkyzzBryEM</a>  <a href="https://www.khanacademy.org/science/physics/one-dimensional-motion/acceleration-">https://www.khanacademy.org/science/physics/one-dimensional-motion/acceleration-</a>



	➤ Calculate acceleration from speed/time graph.		<a href="#">tutorial/a/what-are-acceleration-vs-time-graphs</a>
ARABIC (Arabs)	TOPIC:  أغنية حب للكلمات  الأفعال التي تنصب مفعولين ليس أصلهما مبتدأ وخبر  LEARNING OBJECTIVES- ➤ أن يحلل الطالب النص الشعري تحليلًا أدبيًا. ➤ أن يفسر النص تفسيرًا إجماليًا. ➤ أن يوضح دور الخيال والمحسنات اللفظية في إيجاد التأثير في النص الشعري. ➤ أن يستنتج الطالب الأفعال التي تنصب مفعولين ليس أصلهما مبتدأ وخبر. ➤ أن يعربها مع مفعوليهما. ➤ أن يستخدمها في كتابة فقرة.	يكتب الطالب مقالاً عن تأثير الكلمات في القارئ  يشرح الأبيات  يفسر الجمال  يكتب نصا موازيا  يكتب الطالب فقرة مستخدماً الأفعال التي تنصب مفعولين ليس أصلهما مبتدأ وخبر  . يرسم خريطة ذهنية .	<a href="https://tedinarabic.ted.com/ar/blog/people-s-words-and-actions-can-actually-shape-your-brain-a-neuroscientist-explains-how">https://tedinarabic.ted.com/ar/blog/people-s-words-and-actions-can-actually-shape-your-brain-a-neuroscientist-explains-how</a>  <a href="#"><u>الافعال التي تنصب مفعولين ليس Google اصلهما مبتدأ وخبر - بحث</u></a>
ARABIC (Non - Arabs)	TOPIC: Healthy and unhealthy food  LEARNING OBJECTIVES- ➤ To determine the menu of healthy food. ➤ To explain the benefits of healthy food. ➤ To describe unhealthy food. ➤ To explain the harms of unhealthy food.	Along with your child  ✓ Design a mind map of unhealthy foods. ✓ Create a conversation in a restaurant about healthy food. ✓ Recording a video with the family about healthy and unhealthy food (benefits and harms).	<a href="https://www.youtube.com/watch?v=o55-91tdd1l">https://www.youtube.com/watch?v=o55-91tdd1l</a>  <a href="https://www.youtube.com/watch?v=ZFoSm-Ln6MM&amp;t=3s">https://www.youtube.com/watch?v=ZFoSm-Ln6MM&amp;t=3s</a>



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	<ul style="list-style-type: none"><li>➤ To compare healthy and unhealthy foods.</li><li>➤ To describe the diet.</li><li>➤ To analyze the text literary and linguistic.</li><li>➤ To use literary and rhetorical methods.</li></ul>	<ul style="list-style-type: none"><li>✓ Educate friends about the dangers of fast food.</li><li>✓ Encourage friends to eat healthy foods.</li><li>✓ Design a mind map about healthy foods.</li></ul>	<a href="https://www.youtube.com/watch?v=uDR2BPhSaeI">https://www.youtube.com/watch?v=uDR2BPhSaeI</a> <a href="https://www.youtube.com/watch?v=Ay0F-c_5KEQ">https://www.youtube.com/watch?v=Ay0F-c_5KEQ</a> <a href="https://www.youtube.com/watch?v=mDiQ3i7NrQ0">https://www.youtube.com/watch?v=mDiQ3i7NrQ0</a> <a href="https://www.youtube.com/watch?v=Fa3giR1vnIo">https://www.youtube.com/watch?v=Fa3giR1vnIo</a> <a href="https://www.youtube.com/watch?v=5HEFCwXDi10">https://www.youtube.com/watch?v=5HEFCwXDi10</a> <a href="https://www.youtube.com/watch?v=fAt9YHETkgw">https://www.youtube.com/watch?v=fAt9YHETkgw</a>
ISLAMIC STUDIES (Arabs)	<p>TOPIC: سورة الواقعة / المنهج النبوي في تربية الجيل</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"><li>➤ يفسر مفردات الآيات القرآنية</li><li>➤ يوضح أصناف الناس يوم القيامة</li><li>➤ يبين مفهوم التربية وأهميتها في الإسلام</li></ul>	<ul style="list-style-type: none"><li>✓ يبين دلالة الآيات الكريمة</li><li>✓ يستنتج القيم التي تضمنتها الآيات</li><li>✓ يبين أساليب النبي في التربية</li><li>✓ يحدد مجالات الاقتداء بالرسول</li></ul>	<a href="https://www.youtube.com/watch?v=39arocPHVPA">https://www.youtube.com/watch?v=39arocPHVPA</a> <a href="https://www.youtube.com/watch?v=Zam3OO7cNBw">https://www.youtube.com/watch?v=Zam3OO7cNBw</a>



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	<p>يُبين الأسس والمبادئ التي قامت عليها التربية النبوية لجيل الصحابة.</p>		
<p>ISLAMIC STUDIES (Non- Arabs)</p>	<p>TOPIC: Intellectual tolerance</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> <li>➤ To explain the concept of intellectual tolerance.</li> <li>➤ To analyze the effects of intellectual tolerance on the individual and on the society.</li> <li>➤ To infer evidences in support intellectual tolerance</li> <li>➤ To embrace and call for tolerance.</li> </ul>	<p>Encourage your child to</p> <ul style="list-style-type: none"> <li>✓ Write an essay about the importance of the intellectual tolerance from Islamic perspective</li> <li>✓ Create videos about the effects of intellectual tolerance on the prosperity of the society.</li> </ul>	<p><a href="https://www.youtube.com/watch?v=UWJTCi8UofA">https://www.youtube.com/watch?v=UWJTCi8UofA</a></p> <p><a href="https://www.youtube.com/watch?v=o2iHBzBLYNI">https://www.youtube.com/watch?v=o2iHBzBLYNI</a></p>
<p>PSHCEE</p>	<p>TOPIC: Active Citizenship</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"> <li>➤ To examine the meaning of active citizenship</li> <li>➤ To explore activities which students can do in their communities</li> </ul>	<p>Motivate your child</p> <ul style="list-style-type: none"> <li>✓ To take part in any activities which are available in your community.</li> </ul>	<p><a href="https://www.youtube.com/watch?v=KIZNO_LCA8K&amp;T=6S">HTTPS://WWW.YOUTUBE.COM/WATCH?V=KIZNO_LCA8K&amp;T=6S</a></p>
<p>HISTORY</p>	<p>TOPIC: Interwar Years- The Great Depression</p> <p>LEARNING OBJECTIVES-</p>	<p>Guide your child write a report on:</p> <ul style="list-style-type: none"> <li>✓ The mechanism of Stock exchange and its impact in the economy.</li> </ul>	<p><a href="http://www.educationquizzes.com/ks3/history">www.educationquizzes.com/ks3/history</a></p> <p><a href="http://www.historyextra.com">http://www.historyextra.com</a></p>



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	<p>➤ To examine the causes and consequences of 1929 crash in United States.</p>	<p>✓ Given a choice will you speculate and invest in a risky but lucrative business.</p>	
GEOGRAPHY	<p>TOPIC: Classification of Rock</p> <p>LEARNING OBJECTIVES-</p> <p>➤ To examine the composition of different rocks</p>	<p>Help your child answer the following questions:</p> <p>✓ Can all rocks have fossils? Why/why not?</p> <p>✓ Analyse the composition of rocks and classify it</p>	<p><a href="https://www.britannica.com/video/143173/materials-cycle-forms-sedimentary-rock-Sediments-magma">https://www.britannica.com/video/143173/materials-cycle-forms-sedimentary-rock-Sediments-magma</a></p> <p><a href="https://www.youtube.com/watch?v=Cn8Rdujngws">https://www.youtube.com/watch?v=Cn8Rdujngws</a></p> <p><a href="https://www.youtube.com/watch?v=faXNNHcyXXk">https://www.youtube.com/watch?v=faXNNHcyXXk</a></p> <p><a href="https://www.youtube.com/watch?v=hmgR4PiGp1E">https://www.youtube.com/watch?v=hmgR4PiGp1E</a></p>
UAE SOCIAL STUDIES	<p>TOPIC: Geography of West Asia</p> <p>LEARNING OBJECTIVES-</p> <p>➤ To analyse the geographical characteristics of West Asia by using various kinds of Maps</p>	<p>Help you child:</p> <p>✓ Identify the main seas or rivers that surround the Arabian Peninsula</p> <p>✓ Research upon the monuments of West Asia</p>	<p>Ministry of Education Yr 9 Text Book Social Studies</p>





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FRENCH	<p>TOPIC: faire le shopping</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"><li>➤ To make a dialogue in different stores, facing different daily life situations and problems to solve.</li></ul> <p>TOPIC: On voyage en avion</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"><li>➤ To name places and services at the airport.</li><li>➤ To ask and answer questions seeking information at the airport.</li></ul>	<ul style="list-style-type: none"><li>✓ Listening comprehension: <a href="http://www.youtube.com/watch?v=M5_zhal9tbA&amp;feature=youtu.be">http://www.youtube.com/watch?v=M5_zhal9tbA&amp;feature=youtu.be</a></li><li>✓ Reading comprehension: <a href="http://www.podcastfrancaisfacile.com/podcast/2013/05/au-marche-faire-ses-courses-dialogue-fle-francais-apprendre-learn.htm">http://www.podcastfrancaisfacile.com/podcast/2013/05/au-marche-faire-ses-courses-dialogue-fle-francais-apprendre-learn.htm</a></li><li>✓ Read and listen and answer the given activity: <a href="http://www.francaisfacile.com/exercices/exercice-francais-2/exercice-francais-8086.php">http://www.francaisfacile.com/exercices/exercice-francais-2/exercice-francais-8086.php</a></li><li>✓ Grammar practice: <a href="http://www.francaisfacile.com/exercices/exercice-francais-2/exercice-francais-17134.php">http://www.francaisfacile.com/exercices/exercice-francais-2/exercice-francais-17134.php</a></li></ul>	
ICT	<p>TOPIC: Control Applications and Communication</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none"><li>➤ To explore the applications of ICT in microprocessors and control devices.</li></ul>	<p>Motivate your child to</p> <ul style="list-style-type: none"><li>✓ Identify various types of sensors and explain different applications that link to UAE.</li><li>✓ Explain the importance of computers to measure things. To be able to list the advantages of microprocessor in control applications</li></ul>	<a href="https://www.ictlounge.com/html/communications_applications.htm">https://www.ictlounge.com/html/communications_applications.htm</a>



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	<p>➤ To discuss the purposes of a range of communication applications and their features</p>	<ul style="list-style-type: none"><li>✓ Evaluate the positive and negative effects of ICT on Microprocessor Controlled Devices on society and on employment.</li><li>✓ Evaluate how the invention and application of Microprocessor Controlled Devices deteriorated the socio-economic factors of society and how employment opportunities affected with the use of Robots.</li></ul>	
STEAM	<p>TOPIC: Shadow Theatre</p> <p>LEARNING OBJECTIVES-</p> <p>➤ Explore and explain on how the shadows are formed.</p>	<ul style="list-style-type: none"><li>✓ Investigate how shadows change at different times of day due to the angle of light from the Sun.</li><li>✓ Integrate and exhibit learning by creating a 'shadow puppet theatre' in SAM Space.</li></ul>	<a href="https://samlabs.com/us/solutions/">https://samlabs.com/us/solutions/</a>
MORAL EDUCATION	<p>TOPIC: Understanding the Growth of Government in the UAE</p> <p>LEARNING OBJECTIVES-</p> <p>➤ To understand the state and government of the UAE</p> <p>➤ To describe the key characteristics of good government.</p>	<p>Encourage your child to learn more about the laws of the UAE</p>	<a href="http://gulfnews.com/news/uae/society/six-leaders-and-how-they-helped-shape-uae-1.1937162">http://gulfnews.com/news/uae/society/six-leaders-and-how-they-helped-shape-uae-1.1937162</a>