The Winchester School
Year 9- Family Learning Newsletter – November - 2021

SUBJECT	FOCUS	ACTIVITIES	WEBSITES
ENGLISH	**Topic:** Argumentative Writing **Learning Objectives:** To compare and contrast argumentative and persuasive writing	Motivate your child to - ➢ **Review** an article in the leading online magazines of UAE. ➢ **Highlight** the use of persuasive/argumentative features and explain their impact. ➢ **Anlayse** whether the article is persuasive or argumentative and justify your opinion. ➢ **Compare** and contrast the use of argumentative techniques in two articles.	➢ https://owl.purdue.edu/owl/general_writing/academic_writing/essay_writing/argumentative_essays.html
MATHS	**Topic:** Currency Conversions **Learning Objectives:** ➢ Convert currencies using foreign exchange rates. ➢ Understand how currency exchange can be applied to the real world. **Topic: Simultaneous Equations** **Learning Objectives:** ➢ Apply algebraic skills to solve the equations to find two unknown values.	➢ **Encourage** your child to use the **Cross curricular Activity Link–** https://www.transum.org/Maths/Activity/Currency/ https://www.mathsisfun.com/activity/currencies.html ➢ **Motivate** your child to use the Cross Curricular Links: P.E. –problem solving English- basic arithmetic Art- shape and space Media - Graphics	➢ https://corbettmaths.com/wp-content/uploads/2013/02/exchange-rates-pdf.pdf ➢ https://studymaths.co.uk/workout.php?workoutID=149 ➢ https://corbettmaths.com/2019/09/05/simultaneous-equations-practice-questions/ For more practice and understanding use the link below on solving simultaneous equations ➢ https://www.youtube.com/watch?v=4Woh1BWSaOk

	Topic: Indices **Learning Objectives:** ➢ Apply the rules of indices to simplify algebraic expressions . ➢ Analyse the reciprocal of a number or term and write it as a negative or fractional exponent.		➢ https://www.matrix.edu.au/beginners-guide-year-9-maths/part-3-indices/ ➢ https://www.transum.org/software/SW/Starter_of_the_day/Students/Indices.asp?Level=5
PHYSICS	**Topic:** Dispersion **Learning Objectives:** ➢ To know the image formation in convex and concave lens. ➢ Describe how a spectrum can be produced from white light in terms of wavelength	➢ Ask your child to use simulation for ray diagram and to explain the nature of a real and a virtual image ➢ Motivate your child to research on uses lenses ➢ Encourage the child to investigate converging lenses by:forming an image of a distant object (e.g. a tree or building seen from the laboratory window), bringing parallel rays from a ray box to a focus through acylindrical lens, drawing ray diagrams to scale to show the formation of a real image. ➢ Ask your child when a rainbow is formed and if there is any similarity with the colours seen in a soap bubble. ➢ Encourage your child to research on the reasons for spectrum to be formed.	➢ https://ophysics.com/l12.html http://www.bbc.co.uk/schools/gcsebitesize/science/triple_aqa/medical_applications_physics/lenses/revision/1/ ➢ https://www.physicsclassroom.com/Physics-Interactives/Refraction-and-Lenses/Optics-Bench/Optics-Bench-Refraction-Interactive ➢ https://sciencing.com/lightdispersion-experiments-kids-12011389.html ➢ http://www.physicsclassroom.com/class/refrn/Lesson-4/Dispersion-of-Light-by-Prisms

		➢ Motivate student to design a dispersion filter with help of CD rom (used on).	➢ https://www.youtube.com/watch?v=7Fl0GZsBhGo
CHEMISTRY	**Topic:** Electron configuration. **Learning Objectives:** ➢ 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. **Topic:** Formation of Ions **Learning Objectives:** ➢ Outline how ionic bonds are formed by the transfer of electrons to produce cations and anions **Topic:** Formulae for compounds. **Learning Objectives:** ➢ To use crisscross methods to write the correct formulas for ionic compounds.	➢ **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).	➢ 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/zg923k7/revision/3 ➢ https://www.youtube.com/watch?v=URc75hoKGLY

BIOLOGY	**Topic:** Variation and genetics	➢ **Encourage students** to create an article or play about the different types of mutations that occur and how they impact genes and chromosomes.	➢ https://www.bbc.com/bitesize/guides/z36mmp3/revision/1
	Learning Objectives:		➢ https://evolution.berkeley.edu/evolibrary/article/0_0_0/medicine_06
	➢ Describe how variation causes competition for resources, and drives natural selection.	➢ Students will **share the story** of evolution and discuss the importance of evolution.	➢ https://www.bbc.com/bitesize/guides/z36mmp3/revision/1
	➢ Explain the theories of Lamarck, Wallace and Darwin.	➢ **Encourage your child** to create a 3D model of DNA structure with the materials available at home and explain its function.	
	Topic: Structure of Chromosomes and DNA	➢ **Discuss with your child** the process of fertilization results in each new individual being genetically unique and ask them to create a poster.	➢ https://pmgbiology.com/2014/10/21/dna-structure-and-function-igcse-a-understanding/
	Learning Objectives:	➢ **Motivate your child** to research and find out how some genetic disorders arise, ask them to list some of the genetic disorders.	➢ http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/cells/cloningrev1.shtml
	➢ 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.		
	➢ 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.		

		يكتب موضوعًا عن أهمية اللغة العربية والحفاظ عليها	**Topic:** الدرس الأخير	
ARABIC (Arabs)			**Learning Objectives:** أن يحدد الفكرة الرئيسة في النص أن يحلل النص تحليلًا أدبيًّا أن يحدد العناصر الفنية للقصة أن يصف الشخصيات ف القصة وصفًا داخليًّا	https://www.alittihad.ae/wejhatarticle/65517/%D8%A7%D9%84%D8%AD%D9%81%D8%A7%D8%B8-%D8%B9%D9%84%D9%89-%D8%A7%D9%84%D9%84%D8%BA%D8%A9-%D8%A7%D9%84%D8%B9%D8%B1%D8%A8%D9%8A%D8%A9
		يكتب الطالب موضوعًا عن أهمية الوقت في حياة الإنسان	**Topic:**تعلمت من أوقات الفراغ **Learning Objectives:** أن يحدد الفكرة الرئيسة والأفكار الداعمة أن يحلل النص تحليلًا أدبيًّا أن يبدي رأيه في وجهة نظر الكاتب	➤ https://www.youtube.com/watch?v=vEJ4qlp5_tw

THE WINCHESTER SCHOOL

| ARABIC

(Non- Arabs) | **Topic:** Healthy life

Learning Objectives:

➤ To identify healthy foods.
➤ To identify unhealthy foods.
➤ Compare healthy and unhealthy foods.
➤ Mention the benefits of healthy foods.
➤ To conclude the effects of unhealthy foods on human health.
➤ To List healthy and unhealthy habits
➤ To suggest solutions to unhealthy habits.
➤ To express his opinion on the diet.
➤ To design a complete nutritional program
➤ Have the student suggest ideas for a better healthy life
➤ To submits new proposals for better health. | **Encourage your child to** –

➤ Design a mind map about healthy and unhealthy food.
➤ **Make a** wall panel about the benefits and advantages of healthy foods.
➤ **Create a video** about good health habits.
➤ **Create banners** about healthy living.
➤ **Formulate a dialogue** with his family about the benefits of healthy food and the harms of unhealthy food. | ➤ https://www.youtube.com/watch?v=o55-91tdd1I
➤ https://www.youtube.com/watch?v=ZFoSm-Ln6MM
➤ https://www.youtube.com/watch?v=PnPdUSLsGvg
➤ https://www.youtube.com/watch?v=5XiH9B0EXEg |
| ISLAMIC STUDIES

(Arabs) | **Topic:**

الحلال بين - الدين النصيحة

Learning Objectives:

أن يبن الهدايات الواردة في الحديث الشريف

أن يستنبط مدي تأثير الحرام في الحلال | يكتب موضوعاً عن خطورة الرياء على الفرد والمجتمع

يكتب بحثاً عن تأثير المتشبهات على المجتمع

يكتب موضوعاً عن الحلال والحرام

يحرص على حفظ سورة الحجرات | https://www.youtube.com/watch?v=U3C9JbUfdRA

➤ https://www.youtube.com/watch?v=LZA_Jn2ZIbs
➤ https://www.youtube.com/watch?v=F0Gu-fETvYg |

	أن يبدي رأيه في الشبهات أن يناقش آداب النصيحة في الإسلام أن يوضح حقوق وواجبات الناصح		
ISLAMIC STUDIES (Non- Arabs)	**Topic:** Al Ghafour The Forgiving, Al Aladl The Just Glorified be He. **Learning Objectives:** ➢ To comprehend the importance of Allah's Attributes (Al-Adl & Al- Ghafoor.(by giving reference from Quran and Sunnah). ➢ To analyse the conditions of accepting forgiveness (At Tawbah) ➢ To evaluate the effect of Justice and Forgiveness on society.	Motivate your child to - ➢ **Search and Create** a power point on the conditions of Forgiveness of Allah (S.W.T) and His Justice in Punishing and the effect of these two Qualities of Allah on behavior of people, and safety of society. ➢ **Search a story** from Seerah of Prophet (P.B.U.H) shpws his forgiving attitude. **Explore** the benefits of justice on society..	➢ https://www.youtube.com/watch?v=MIELrM4-qCw
PSHCEE	**Topic:** Antisocial Behaviour **Learning Objectives:** ➢ To understand what anti-social behaviour is and why people behave and how the outcomes of it can be positive and negative	**Share and discuss with your child** the topic of -antisocial behaviour and consider how we would try to deal with the problem.	➢ https://www.youtube.com/watch?v=ZgG2SwZWNnk

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MORAL EDUCATION	**Topic:** Ethics in the Context of Communities **Learning Objectives:** ➢ To discuss student's duties and responsibilities within their family. ➢ To discuss why being part of a community is important.	➢ **Motivate your child** to be part of 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=e5gRmAvy4jk
HISTORY	**Topic:** Course of WWI **Learning Objectives:** To examine the trench warfare methods used in WWI	➢ **Discuss with your child**-To what extent was the trench warfare system beneficial to soldiers?	➢ www.studyhistory.co.uk ➢ www.bbc.co.uk/history ➢ www.schoolhistory.co.uk ➢ www.history
GEOGRAPHY	**Topic:** Sustainable Living **Learning Objectives:** To create sustainable solutions to selected ecological challenges.	➢ **Help your child** create a design and create a product using 3Rs with C2C sustainability model.	➢ https://www.youtube.com/watch?v=8CQgla5WIMM ➢ https://www.youtube.com/watch?v=X6HDcubgxRk

UAE SOCIAL STUDIES	**Topic:** Africa from colonialism to independence **Learning Objectives:** To understand Africa's transformation in the 20th century from colonialism to independence	➢ **Discuss with your child** on the following pointer ➢ New countries created in Africa after colonisation really 'new'countries? Explain the answer	➢ Year 9 UAE SST MOE text book

FRENCH	**Topic**: Nettoie le monde!
	Learning Objectives:
	Grammar:
	  ➢ To conjugate Irregular verb: ALLER in the present and past tense.
	  ➢ To use the verb ALLER in the near future tens.
	  ➢ 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
	
	Vocabulary:
	  ➢ To develop a vocabulary bank related to protection of environment
	  ➢ To say what you're going to do to protect the environment.
		➢ Encourage your child to do a regular work: 15-20 minutes 4 times a week spent with French will guarantee a good progress.
		
		Moral Education
		
		➢ **Discuss with your child** civic and moral obligations to care about the environment.
		➢ How do we show that we care about the place where we live? **Make up a slogan** or a **motto** that could be used for a pro environmental action.
			➢ 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/

ICT	**Topic:** Computer Networks **Learning Objectives:** To analyse the software that make up computer systems work, and evaluate different types of various software	➤ **Explore** about the different types of topologies in the computer networking. ➤ **Create a presentation** to describe about computer network, types, and their importance in everyday life. ➤ Motivate your child to to **make a Sway/Office Mix** presentation on types of layers in OSI model.	➤ https://www.journals.elsevier.com/computer-networks ➤ https://www.britannica.com/technology/computer-network ➤ https://www.belden.com/blogs/network-types
STEAM	**Topic:** Night Safety- Micro:bit **Learning Objectives:** ➤ To design, create and test a prototype of a flashing wheel light to help improve road safety at night for wheelchair users.	Discussion and Collaborative time ➤ **Develop understanding** of issues around road safety for wheelchair users, especially at night. ➤ **Design and create along with your child a prototype** of a flashing wheel light using micro:bit to help wheelchair users 'Be Safe: Be Seen!' at night. ➤ **Test, debug, evaluate and present** a Flashing wheel light prototype.	➤ https://microbit.org/lessons/night-sensor/