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Year 9 - Family Learning Newsletter – JANUARY 2021

SUBJECT	FOCUS	ACTIVITIES	WEBSITES
ENGLISH	<p><u>TOPIC – Reading and Writing Skills</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">• To develop dialogue writing skills.• To develop short story writing skills.• To enhance vocabulary, grammar and reading skills.	<p>Encourage your child to -</p> <ul style="list-style-type: none">• Create different dialogues based on chosen prompts and let your creativity flow.• Watch the video on how to write a short story and then choose any of the writing prompts and write one yourself.• Practice your reading comprehension, grammar, punctuation, vocabulary, inference and spelling skills through free online quizzes and games.	<ul style="list-style-type: none">• Dialogue Exercises: 40 Writing Prompts to Get You Going – Marylee MacDonald (maryleemacdonaldauthor.com)• Short Story Writing https://youtu.be/wwxx8caENF8• Short Story Ideas and Creative Writing Prompts (creative-writing-now.com)• Kahoot.com• Quizziz.com• Free Word Games, Vocabulary Building Exercises (theproblemsite.com)• Inference Worksheets (softschools.com)• Short Reading Comprehension Passages (grammarbank.com)



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MATHS
EXTENDED

TOPIC- Indices

LEARNING OBJECTIVES-

- To simplify algebraic terms using laws of indices
- To simplify indices with a negative index or square roots.
- Evaluate values involving fractional indices.

TOPIC: Number

LEARNING OBJECTIVES-

- To differentiate between rational and irrational numbers.
- To convert recurring decimals to fractions.

TOPIC: Inequalities

LEARNING OBJECTIVE

- **Exponential Error:** This lesson starter presents a number of statements about indices and encourage your child to spot the mistake.
- Exponents are used to describe a computer's memory (1 gigabyte of RAM= 1×10^9 bytes, motivate your child to measure the strength of the earthquakes.

Cross curricular

- Exponential decay of a radioactive substance, encourage your child to apply in Physics, finance.

Challenge your child

- There are grains of salt in a container of salt. If a large store has containers of salt, how many grains of salt do they have? Leave your answer in the form a^b
- To multiply and divide indices by adding / subtracting powers with negative roots.
- Challenge your child with different recurring decimals. Convert them to fractions and check with calculator.

- http://www.transum.org/Software/SW/Starter_of_the_day/Similar.asp?ID_Topic=48
- <https://www.mathwarehouse.com/algebra/exponents/fraction-exponents/formula-examples-simplify-exponents-with-fractions.php>
- <https://www.onlinemathlearning.com/recurring-decimals-fractions.html>
- <https://www.youtube.com/watch?v=P-c9D6mjGA>
- <https://www.mathworksheets4kids.com/inequalities.php>



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	<ul style="list-style-type: none">To solve linear inequalities and listing the values for the given inequalities. Then plotting the value for x on the graph.		
BIOLOGY	<p><u>TOPIC – Our Health and the Effects of Drugs</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">Explain the effects of each type of drug on the body.Examine the link between smoking and cancer.Describe the medical uses & negative effects of cannabis on the body.Explain the short term & long-term effects of alcohol.	<ul style="list-style-type: none">Encourage the students to research on the types of drugs & their effect on the nervous system.Create a newspaper column on the effects of smoking & alcohol (on a person & society).Conduct a debate whether cannabis should be legalised	<ul style="list-style-type: none">https://www1.health.gov.au/internet/publications/publishing.nsf/Content/drugtreat-pubs-front6-wk-toc~drugtreat-pubs-front6-wk-secb~drugtreat-pubs-front6-wk-secb-3~drugtreat-pubs-front6-wk-secb-3-1https://study.com/academy/lesson/how-drugs-affect-the-brain-nervous-system.html



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PHYSICS	<p><u>TOPIC- Refraction and Eye</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">To learn about the eye and its defects <p><u>TOPIC- Energy</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">Would be able to appreciate law of conservation of energy.Would be able to explain energy changes in daily life.Would be able to calculate efficiency.Would be able to explain energy changes in matter and its effect such as internal energy.Would be able to calculate kinetic energy and potential energy.Would be able to explain energy changes in falling bodies.	<ul style="list-style-type: none">Encourage the child to understand the importance of eye and how important it is to us.Research the defects of eye and how they affect our day to day lifeHow can these defects be corrected?Analyze and explore about the various types of energy around you.Identify and research the basic source of energy and how energy is converted from one form to another.Research on loss of energy when a machine works and hence the efficiency of a system.	<ul style="list-style-type: none">http://www.physicsclassroom.com/class/refrn/Lesson-1/The-Cause-of-Refractionhttp://www.chm.bris.ac.uk/webprojects2002/upton/defects_of_the_eye.htmhttps://www.britannica.com/science/conservation-of-energyhttp://www.solarschools.net/resources/stuff/different_forms_of_energy.aspxhttp://www.bbc.co.uk/schools/gcsebitesize/science/aqa_pre_2011/energy/heatrev6.shtmlhttp://examples.yourdictionary.com/law-of-conservation-of-energy-examples.html
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CHEMISTRY

TOPIC: Physical and chemical reactions

LEARNING OBJECTIVES

- To identify physical and chemical changes, and understand the differences between them

TOPIC: Rate of reaction

LEARNING OBJECTIVES

- To identify the different factors affecting the rate of a reaction.
- To outline the effects of concentration, particle size temperature and catalysts on the rate of a reaction.
- To understand what catalysts are and give their real life uses.
- To plan and investigate explain the effects of concentration, particle size, temperature and catalysts on the rate of a reaction.

TOPIC: Pattern of reactivity of metals

Activity:

- Read the context and summarise your understanding writing at least 5 points.
<https://www.thoughtco.com/physical-and-chemical-changes-examples-608338>
- Discuss with your child about what do they understand by slow, fast and very fast reaction. How do you measure rate of a chemical reactions?
- Talk to your child what are the different factors, which would affect rate of a chemical reaction.
- Encourage your child to identify the reactivity of different metals and arrange it from most reactive to least reactive metals.
- Discuss with them the difference between physical and chemical reactions with suitable examples.

- <https://www.thoughtco.com/physical-and-chemical-changes-examples-608338>
- www.chem4kids.com/files/react_rates.html
- http://www.bbc.co.uk/schools/gcsebit/size/science/add_edexcel/chemical_reactions/ratesrev2.shtml
- <https://www.bbc.com/bitesize/guides/zcxn82p/revision/1>



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	<p><u>LEARNING OBJECTIVES</u></p> <ul style="list-style-type: none">To investigate and arrange the reactivity of different metals and carbon in the reactivity series.		
ARABIC (Arabs)	<p><u>TOPIC</u> صناعة السفن الخشبية في دولة الإمارات</p> <p><u>LEARNING OBJECTIVES-</u> أن يحدد الطالب الفكرة الرئيسية والأفكار الفرعية للنص أن يحلل المعلومات الواردة مستشهدًا بأدلة من النص أن يفسر مصطلحات علمية في مجال العلوم الإنسانية</p> <p><u>TOPIC</u> متى تخطط لمستقبلك</p> <p><u>LEARNING OBJECTIVES-</u> أن يكتب الطالب نصًا تفسيريًا (وصف، شرح، مقابلة، مقارنة، مشكلة وحل) أن يطبق استراتيجيات البحث عن المادة أن يستخدم التشبيه المرسل في كتاباته</p> <p><u>TOPIC</u> حدادو جبل بولوفا</p>	<p>يكتب الطالب نصًا معلوماتيًا عن تطور صناعة السفن</p> <p>يكتب الطالب نصًا تفسيريًا عن التخطيط للمستقبل</p>	<ul style="list-style-type: none">https://www.youtube.com/watch?v=uNg_jM8_a2ohttps://www.easyunime.com/advice/%D9%83%D9%8A%D9%81-%D8%AA%D8%AE%D8%B7%D8%B7-%D9%84%D9%85%D8%B3%D8%AA%D9%82%D8%A8%D9%84%D9%83-2289/https://www.albayan.ae/paths/books/2010-04-24-1.238989



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	<p><u>LEARNING OBJECTIVES-</u> أن يحلل الطالب الشخصيات من خلال أفكارها وأفعالها وأقوالها وأقوال الشخصيات الأخرى عنها، مع الأدلة أن يتعرف الأسطورة وسماتها الفنية أن يفسر الكلمات مستعيناً المعجم الورقي والرقمي</p> <p><u>TOPIC</u> الأفعال التي تنصب مفعولين أصلهما مبتدأ وخبر</p> <p><u>LEARNING OBJECTIVES-</u> أن يتعرف الطالب الأفعال التي تنصب مفعولين أصلهما مبتدأ وخبر أن يعربها مع المفعولين أن يستخدمها في كتاباته</p>	<p>يكتب الطالب بحثاً عن الأساطير</p> <p>يكتب الطالب موضوعاً مستخدماً الأفعال التي تنصب مفعولين أصلهما مبتدأ وخبر</p>	<ul style="list-style-type: none">• https://www.youtube.com/watch?v=hfgBhN_V_ao
ISLAMIC STUDIES (Arabs)	<p><u>TOPIC –</u> الإيمان فضل من الله تعالى-العدل في الاسلام</p> <p><u>LEARNING OBJECTIVES-</u></p>	<p>يكاف الطالب ببعض التكليفات البيتية -يحرص على حفظ – سورة الحجرات يبتعد عن التقليد الأعمى ويحرص على الالتزام بتعاليم الإسلام يبحث عن دور الإمام مسلم في تدوين الحديث الشريف</p>	<ul style="list-style-type: none">• https://www.youtube.com/watch?v=MUKZiIPapOc



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	<p>أن يحدد الطالب مجالات العدل في الإسلام مع الاستدلال بالقرآن والأحاديث</p> <p>أن يوضح ثمرات تحقيق العدل في المجتمع</p> <p>أن يُقيم مواصفات الحاكم العادل في الإسلام -*</p> <p>أن يذكر نسب الإمام مسلم</p> <p>أن يستنتج أهم صفات الامام مسلم-</p> <p>أن يبين الدروس والعبر من حياة الامام مسلم</p>	<p>يكتب بحثا عن الإيمان وأثره على الفرد في الدنيا والآخرة</p>	
ARABIC (Non- Arabs)	<p>TOPIC-</p> <p><u>الأعمال والمهن</u></p> <p>LEARNING OBJECTIVES-</p> <p>1- أن يقارن التلميذ بين الأعمال المختلفة</p> <p>2- أن يصف التلاميذ وظائفهم المستقبلية</p> <p>3- أن يبدي التلاميذ الرأي في المهن المختلفة</p>	<p>Encourage your child to create comparison between the different jobs.</p> <p>Motivate your child to design different banners on the jobs.</p> <p>Encourage your child to create videos about the jobs in the past and the present.</p>	<ul style="list-style-type: none">• https://www.youtube.com/watch?v=0Oy7o8wycwA• https://www.youtube.com/watch?v=gxP76zyUS2g• https://www.youtube.com/watch?v=fo-qhV58mdA



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<p>ISLAMIC STUDIES (Non- Arabs)</p>	<p><u>TOPIC – Al-Hajj- The Pilgrimage</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none">• To explain the meaning and rulings of Hajj.• To identify the rituals and acts of Hajj performed by Prophet Muhammad(s) <p><u>TOPIC – Permissible (Halal) and (Haram)Forbidden Foods and Drinks</u></p> <p><u>LEARNING OBJECTIVES-</u></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).	<p>Encourage your child to -</p> <ul style="list-style-type: none">• Watch a video telling about the rituals and acts of Hajj• Learn how to give advice by play role and making posters.• Search and Create a power point with the title “Guidelines to Halal and Haram food in Islam”. Support your answer with rules of fiqh and ayat and Hadeeth.	<ul style="list-style-type: none">• https://www.youtube.com/watch?v=Kjq0-U4EP9M• https://www.youtube.com/watch?v=1DTwPbNTiTY



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	<ul style="list-style-type: none"> To evaluate the consequences of consuming haram food. (by giving examples from real life) 		
PSHCEE	<p><u>TOPIC – Road Safety and Human Rights</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none"> To understand how some attitudes and behaviour can cause incidents. To explore the concept of human rights. 	<ul style="list-style-type: none"> Encourage your child to behave well when crossing the road or when travelling. Discuss to your child the different human rights that are commonly violated. 	<ul style="list-style-type: none"> https://www.youtube.com/watch?v=nDglVseTkuE&t=12s
MORAL EDUCATION	<p><u>TOPIC – The Growth of Consultative Government in the UAE</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none"> To recognise key developments in the growth of government at local and national levels in UAE. 	<ul style="list-style-type: none"> Talk to your child about the governments, both federal and local, and the UAE’s amalgamation of both traditional and modern politics. 	<ul style="list-style-type: none"> https://u.ae/en/about-the-uae/the-uae-government/political-system-and-government
HISTORY	<p><u>TOPIC – World War I</u></p> <p><u>LEARNING OBJECTIVES-</u></p>	<ul style="list-style-type: none"> Watch the videos and discuss with the child the events that was to blame for the outbreak of WWI? 	<ul style="list-style-type: none"> https://www.youtube.com/watch?v=JEGVcSpfM9k https://www.johndclare.net/causes_WWI4.htm



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	<ul style="list-style-type: none"> To examine how European powers (Russia, Germany, France and Britain) got involved in World War I. 	<ul style="list-style-type: none"> Have a debate with your child on - Germany was more to blame than Serbia for the outbreak of World War I 	<ul style="list-style-type: none"> https://www.youtube.com/watch?v=0jycVFL8CNM
UAE SOCIAL STUDIES	<p><u>TOPIC – Land and Resources of Africa</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none"> To examine the physical geography of Africa. 	<ul style="list-style-type: none"> Help your child make a list of resources that we use every day that are from Africa. Help your child locate the rift valley on the map of Africa and list the countries' that the rift valley runs through. 	<ul style="list-style-type: none"> https://www.youtube.com/watch?v=nEFybyiLkD0 https://www.nationalgeographic.org/encyclopedia/africa-physical-geography/
GEOGRAPHY	<p><u>TOPIC – From Rock to Soil</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none"> To examine the difference between landscape and the rock cycle. 	<ul style="list-style-type: none"> Compare and contrast the landscape of UAE to that of UK. Write an essay on- How can we prevent destruction of soil while using it? Visiting the soil museum with your child on a weekend. Prepare a questionnaire that you will fill after visiting the soil museum. 	<ul style="list-style-type: none"> https://www.tes.com/resources/search/?&years=GB%7C0%7C1114%7C&years=GB%7C0%7C1416%7C&years=GB%7C0%7C16%2B%7C&subjects=GB%7C0%7CGeography%7C&displayCountry=GB&q=rock%20to%20soil https://www.tes.com/teaching-resource/rocks-and-soils-teachers-notes-6068412



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FRENCH	<p>TOPIC – Au restaurant</p> <p>LEARNING OBJECTIVES-</p> <ul style="list-style-type: none">• To exchange information and opinions about meals and eating habits.• To communicate while buying food in different types of shops• To order drinks and snacks in a cafe or a restaurant• To use quantity expressions and forms of “le conditionnel présent”	<p>Encourage your child to -</p> <ul style="list-style-type: none">• Prepare a role play based on these instructions: Vous allez au restaurant en France avec un(e)ami(e).• Saluez l'employé(e). Dites que vous voudriez une table pour deux personnes.• Dites ce que vous voudriez comme plat principal pour vous et votre ami(e).• Commandez deux sortes de légumes différentes.• Commandez 2 boissons différentes pour vous et votre ami(e).• Vous cherchez les toilettes. Posez une question appropriée.	<ul style="list-style-type: none">• www.french-games.com• www.language-gym.com• www.quizlet.com• www.francaisfacile.com• www.tv5monde.fr• www.france5.fr• www.la1.be• www.duolingo.com
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<p>ICT</p>	<p><u>TOPIC – Blockchain Technology</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none"> • Conceptual understanding of the function of Blockchains as a method of securing using distributed ledgers and their applications. • Describe the structure of a blockchain and why/when it is better than a simple distributed database. 	<ul style="list-style-type: none"> • Encourage your child to recognize the importance of blockchain technology and its real-life applications. • Parents to guide their child for researching cryptocurrencies and Bitcoin. • Create a report on different sectors in UAE integrating the blockchain technology. 	<ul style="list-style-type: none"> • https://cointelegraph.com/bitcoin-for-beginners/how-blockchain-technology-works-guide-for-beginners • https://blockchain.wtf/what-the-faq/blockchain-cryptocurrency-differe • https://www.fool.com/investing/2018/04/11/20-real-world-uses-for-blockchain-technology.aspx
<p>STEAM</p>	<p><u>TOPIC – SAM LAB- Passcode</u></p> <p><u>LEARNING OBJECTIVES-</u></p> <ul style="list-style-type: none"> • To recognize the importance of creating a secure password/passcode for protecting personal information and how to create one. • Students will integrate and exhibit learning by programming systems using AND logic blocks that require input of a specific passcode in order for the output to be activated. 	<ul style="list-style-type: none"> • Encourage your child to recognize the importance of creating a secure password for protecting personal information. • Parents can explain the importance of using a mixture of letters, numbers and symbols when formulating a password. • Design a system that requires a passcode to illuminate an RGB LED. • Create a report on how passcode systems work 	<ul style="list-style-type: none"> • https://samllabs.com/us/