



LEARNING TRAILS AY 2024-25

GRADE: 9

TERM 1_WEEK 9 (21st to 25th October 2024)

ENGLISH	MATHEMATICS
<p>Topics: Letter writing Idioms</p> <p>Learning Objectives: To write a formal letter To use idioms in informal writing</p> <p>Resources needed: Ppt Worksheet workbook</p> <p>Homework/Assignments: Worksheet on Letter writing</p>	<p>Topics: Algebra-1</p> <p>Learning Objectives: Expand the brackets by using identities</p> <ul style="list-style-type: none">Expand products of algebraic expressions e.g. $3x(2x - 4y)$, $(x + 4)(x - 7)$.Factorise simple algebraic expressions. e.g. $9x^2 + 15xy$ and $ax + bx + kay + kby$Factorise Quadratic (trinomial) expression. e.g. $x^2 + 6x + 8$ and $3x^2 + 13x + 4$The difference of two squares e.g. $a^2 - b^2$ <p>Resources needed: https://pastpapers.co/cie/?dir=IGCSE%2FMathematics-0580</p> <p>Homework/Assignments:</p> <ul style="list-style-type: none">Solve 5 even number questions from textbook Weekly Test (Every MONDAY)Question of the day (Monday to Thursday 6:00pm to 11:59 pm)
ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: قصيدة: في مكارم الأخلاق</p> <p>Learning Objectives: أن يحلل المتعلم النصوص في سياقها التاريخي والاجتماعي والسياسي مستخلصا السمات الفنية لها أن يحفظ المتعلم ستة نصوص من عيون الشعر في عصور مختلفة</p> <p>Resources needed:</p>	<p>Topics: اليوميات</p> <p>Learning Objectives: <u>أن يتعرف معنى اليوميات</u> <u>أن يذكر أهمية اليوميات</u> <u>أن يتحدث عن الفرق بين اليوميات والكتابات الأخرى</u></p> <p>Resources needed:</p>



الكتاب المدرسي - العرض التقديمي - الدفتر المدرسي - السبورة
الذكية

Homework/Assignments:

(كتابة نبذة عن حياة الشاعر (المقنع الكندي

الكتاب - الانترنت - العرض التقديمي

Homework/Assignments:

قم بتصميم نموذج لبعض يومياتك

PHYSICS

Topics:

Circular motion, moments

Learning Objectives:

- To describe qualitatively, motion in a circular path due to a force perpendicular to the motion.
- To describe the moment of a force as a measure of its turning effect and give everyday examples.
- To describe an experiment to demonstrate that there is no resultant moment on an object in equilibrium.
- To Calculate the moment of a force using the equation moment= force x perpendicular distance from the pivot and apply the principle of moment.

Unit Title:

Forces

Resources needed:

BIOLOGY

Topics:

Organization of organisms, Magnification and movement in and out of cells.

Learning Objectives:

List the specialized cells and their specific functions.
State and use the formula: magnification = image size ÷ actual size
Convert measurements between millimeters (mm) and micrometers (µm)

Describe diffusion and importance of diffusion of gases and solutes in living organisms
Investigate the factors that influence diffusion, limited to: surface area, temperature, concentration gradient and distance

Resources needed:

PPT, Text book, task sheet. videos

Homework/Assignments:

Worksheets, learning by reading text book and notes.



<p>Textbook, PPT, Worksheets, Calculator, video <u>Homework/Assignments:</u> Past paper questions, worksheets</p>	
CHEMISTRY	ENVIRONMENTAL MANAGEMENT
<p><u>Topics:</u> The Periodic Table <u>Learning Objectives:</u> Describe the Periodic Table as an arrangement of elements in periods and groups Describe the change from metallic to non-metallic character across a period Describe the relationship between group number and the charge of the ions formed from elements in that group Explain similarities in the chemical properties of elements in the same group of the Periodic Table in terms of their electronic configuration Explain how the position of an element in the Periodic Table can be used to predict its properties Identify trends in groups, give information about the elements. <u>Resources needed:</u> Periodic Table, workbook, textbook, ppt, videos <u>Homework/Assignments:</u> Daily Questions, Weekly assignment, past paper questions</p>	<p><u>Topics:</u> Energy and the environment <u>Learning Objectives:</u> Explain the process of formation for fossil fuels, including coal, oil, and natural gas. Categorize various energy resources as either renewable or non-renewable. Analyze the environmental impact of using renewable and non-renewable energy resources. <u>Resources needed:</u> <u>PPT, Past Papers</u> Website: National Geographic Education NASA Climate Kids - Energy <u>Homework/Assignments:</u> Investigate the UAE's approach to managing energy resources, focusing on the country's use of both renewable and non-renewable energy. Examine how the UAE is transitioning towards sustainable energy solutions and its commitment to global environmental goals.</p>
ISLAMIYAT	ISLAMIC STUDIES
<p><u>Topics:</u> Surah al-Hujraat (11-13) <u>Learning Objectives:</u> Interpret the meanings of the verses with a focus on how they prohibit mocking, defamation, suspicion, and backbiting.</p>	<p><u>Topics:</u> Surah al-Hujraat (11-13) <u>Learning Objectives:</u> Interpret the meanings of the verses with a focus on how they prohibit mocking, defamation, suspicion, and backbiting.</p>



<p>Analyze how these teachings promote the safety of society by preventing conflicts and misunderstandings.</p> <p>Resources needed:</p> <p>PowerPoint slides with key points and discussion questions</p> <p>Whiteboard/Markers for brainstorming and summarizing key concepts.</p> <p>Short Video Clips</p> <p>Homework/Assignments:</p> <p>Research and present examples from the life of the Prophet Muhammad (PBUH) or his companions where they demonstrated unity, respect, and equality. Provide references.</p>	<p>Analyze how these teachings promote the safety of society by preventing conflicts and misunderstandings.</p> <p>Resources needed:</p> <p>PowerPoint slides with key points and discussion questions</p> <p>Whiteboard/Markers for brainstorming and summarizing key concepts.</p> <p>Short Video Clips</p> <p>Homework/Assignments:</p> <p>Research and present examples from the life of the Prophet Muhammad (PBUH) or his companions where they demonstrated unity, respect, and equality. Provide references.</p>
URDU	PAKISTAN STUDIES
<p>Topics:</p> <p style="text-align: center;"><u>اشارات کی مدد سے نوٹس بنانا</u></p> <p>Learning Objectives:</p> <p>دی گئی عبارت کو سمجھ کر اشاروں کی مدد سے نوٹس بنانا</p> <p>Resources needed:</p> <p style="text-align: center;"><u>کتاب۔ ۱، لیپ ٹاپ۔ ڈیجیٹل بور</u></p> <p>Homework/Assignments:</p> <p>جماعت میں دئے گئے ۵ صفحات مکمل کریں۔ کلاس ٹیسٹ</p> <p>Resources needed:</p> <p>Homework/Assignments:</p>	<p>Topics:</p> <p>Excavation of Minerals</p> <p>Learning Objectives:</p> <p>The impact of mineral resources on development.</p> <p>Resources needed:</p> <p>PPTS Textbook Notebook</p> <p>Homework/Assignments:</p> <p>Practice questions</p>



ICT	TRAVEL AND TOURISM
<p>Topics: Direct input devices and Output devices</p> <p>Learning Objectives: Direct data input devices:</p> <ul style="list-style-type: none"> List different direct data entry devices Describe the uses of each device (barcode reader, QR code scanner, Magnetic strip reader) <p>Output devices:</p> <ul style="list-style-type: none"> List different output devices Describe the uses of each output devices Differentiate between the characteristics of different monitors Differentiate between the characteristics of different printers <p>Resources needed: PPTs, Past Paper questions, smart board and video</p> <p>Homework/Assignments: The class test will be conducted according to the following timetable. Prepare importing files to database, relationships, forms and making queries and apply criteria... Schedule as follows: 9A - 24th October 2024 9B - 25th October 2024 9C - 21st October 2024 9D - 21st October 2024</p>	<p>Topics: Impacts of tourism industries</p> <p>Learning Objectives: To analyze the economic, social, and environmental impacts of tourism</p> <p>Resources needed: Topical case studies Mark schemes – uploaded in teams.</p> <p>Homework/Assignments: Prepare a concept map showing the economic, social, and environmental impacts of tourism on a selected destination of your choice.</p>



ACCOUNTING	BUSINESS STUDIES
<p><u>Topics:</u> Business Documents</p> <p><u>Learning Objectives:</u> To analyse the business documents –Debit note/Credit note /Statement of account -as a source of evidence</p> <p><u>Resources needed:</u> Text book PPT Proforma debit /credit note/Statement of accounts Task Sheets</p> <p><u>Homework/Assignments:</u> Text book questions on Debit credit note and Statement of account Formulate an imaginary statement of account detailing transactions between the business and customer</p>	<p><u>Topics:</u> Public Limited company</p> <p><u>Learning Objectives:</u> To analyze the features of public limited company.</p> <p><u>Resources needed:</u> Textbook Case studies Test yourself questions</p> <p><u>Homework/Assignments:</u> Prepare concept map showing the features, advantages and disadvantages of limited companies.</p>
ECONOMICS	MORAL, SOCIAL AND CULTURAL STUDIES
<p><u>Topics:</u> Price Determination</p> <p><u>Learning Objectives:</u> To analyze how prices are determined in a market economy To analyze equilibrium price and quantity</p> <p><u>Resources needed:</u> Smartboard Textbook Topical questions Case studies</p> <p><u>Homework/Assignments:</u> Topical past paper questions</p>	<p><u>Topics:</u> Domestication of Camels and Muweilah</p> <p><u>Learning Objectives:</u> To understand and explore the domestication of camels and Muweilah's role in enhancing trade, transportation, and cultural exchange in ancient societies.</p> <p><u>Resources needed:</u> PPTS Videos Textbook Activities</p> <p><u>Homework/Assignments:</u></p>



	Create placards illustrating the impact of camel domestication on trade routes and highlight Muweilah's significance in ancient trade networks.
UAE ARABIC	ISLAMIC ARABIC
<p>Topics: الوحدة : الامارات نبض العالم الدرس : وثيقة الاخوة الانسانية</p> <p>Learning Objectives: يتعرف وثيقة الاخوة الانسانية يناقش أهمية الحوار الحضاري بين الشعوب</p> <p>Resources needed: الكتاب المدرسي السيبورة الذكية البوربوينت أنشطة صفية</p> <p>Homework/Assignments: البحث في معاهدات السلام العالمي</p>	<p>Topics: (سورة الحجرات) 10- 15 وحدة المجتمع وسلامة بنائه</p> <p>Learning Objectives: أن يتلو الطالب الآيات تلاوة سليمة أن يفسر الطالب معاني المفردات الواردة في الآيات أن يتعرف الطالب على المعنى الإجمالي للآيات</p> <p>Resources needed: الكتاب المدرسي السيبورة الذكية البوربوينت أنشطة صفية</p> <p>Homework/Assignments: حل أنشطة الطالب بالكتاب المدرسي حفظ الحديث الشريف مراجعة البوربوينت للدرس</p>
ART AND DESIGN	
<p>Topics: Lips & Nose Leonardo da Vinci</p> <p>Learning Objectives: -All must be able to draw basic lips and nose using simple shapes. - Most should be able to add stylization and shading to enhance depth and form. - The more able could create detailed, expressive features, applying advanced shading and stylization techniques.</p> <p>Resources needed:</p> <ul style="list-style-type: none">- Drawing Book- Pencils (HB, 2B, 4B for shading)- Erasers- Reference images of lips and noses (realistic and stylized)- Rulers (optional)	