



## LEARNING TRAILS AY 2026-27

YEAR: 12

TERM 1\_WEEK 2 ( Sep 7<sup>th</sup> -11<sup>th</sup> , 2026 )

| IT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MATHEMATICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <p><b>Topics:</b><br/>Data processing and information:<br/>Data and information:</p> <p><b>Learning Objectives:</b><br/>Differentiate between data and information with examples.<br/>Use direct and indirect data and their suitability for given purposes.<br/>List the sources of direct data and indirect data.<br/>Advantages and disadvantages of direct and indirect data</p> <p><b>Resources needed:</b><br/>Textbook, past papers, computer system.</p> <p><b>Homework/Assignments:</b><br/>Practice past paper questions.</p> | <p><b>Topics:</b> Quadratics<br/><b>Learning Objectives:</b><br/>Carry out the process of completing the square for a quadratic polynomial , and use a completed square form.<br/>Find the discriminant of a quadratic polynomial and use the discriminant.<br/>Solve quadratic equations and quadratic inequalities, in one unknown.<br/>Solve by substitution a pair of simultaneous equations of which one is linear and one is quadratic.<br/>Recognise and solve equations in x-which are quadratic in some function of x.</p> <p><b>Resources needed:</b><br/>Text book, past papers<br/><a href="https://cambridgepapers.net/">https://cambridgepapers.net/</a></p> <p><b>Homework/Assignments:</b><br/>Daily practice questions</p> |
| ADVANCED ARABIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GENERAL ARABIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p><b>Topics:</b><br/>آيات من سورة النور</p> <p><b>Learning Objectives:</b><br/>أن يفسر المتعلم المفردات الجديدة<br/>أن يستنتج الفكرة العامة للآيات الكريمة<br/>أن يوضح الدروس المستفادة من الآيات الكريمة<br/>أن يتحدث الطالب عن أهمية الهداية في حياة الإنسان</p> <p><b>Resources needed:</b><br/>الكتاب المدرسي - بوربوينت - دفتر الطالب - منصة ألف</p> <p><b>Homework/Assignments:</b><br/>اكتب فقرة منظمة بعنوان :</p>                                                                                                             | <p><b>Topics:</b><br/>برج خليفة</p> <p><b>Learning Objectives:</b><br/>يتعرف الطالب المفردات الجديدة<br/>يستخرج الطالب معلومات عن البرج<br/>يصمم الطالب مخططاً عن الدرس</p> <p><b>Resources needed:</b><br/>الكتاب المدرسي - بوربوينت - دفتر الطالب</p> <p><b>Homework/Assignments:</b><br/>يكتب الطالب عن موقع سياحي إماراتي</p>                                                                                                                                                                                                                                                                                                                                                                                                           |



| نور الهداية في حياتنا (وضح فيها أثر الهداية في حياة الإنسان، وكيف يمكن للقرآن أن يكون نوراً يهدي الإنسان إلى الخير والصلاح)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| PHYSICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BIOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>Topics: physical Quantities and units</b></p> <p><b>Learning Objectives:</b></p> <p>understand and explain the effects of systematic errors (including zero errors) and random errors in measurements</p> <p>2 understand the distinction between precision and accuracy</p> <p>3 assess the uncertainty in a derived quantity by simple addition of absolute or percentage uncertainties</p> <p>understand the difference between scalar and vector quantities and give examples of scalar and vector quantities included in the syllabus</p> <p>2 add and subtract coplanar vectors</p> <p>3 represent a vector as two perpendicular components</p> <p><b>Resources needed:</b> Whiteboard, mini-whiteboards, prefix reference strips, 9702 data sheet, projector, student devices for interactive activities', pictures,ppt</p> <p><b>Homework/Assignments:</b></p> <p><b>Topical Question 2021-25 for the topic physical quantities and units</b></p> | <p><b>Topics:</b></p> <p>Cells as the basic units of living organisms</p> <p><b>Learning Objectives:</b></p> <p>Recognise organelles and other cell structures found in eukaryotic cells and outline their structures and functions, cell surface membrane,nucleus, nuclear envelope and nucleolusrough endoplasmic reticulum smooth endoplasmic reticulum,Golgi body,mitochondria the presence of small circular DNA) ribosomes , lysosomes,centrioles and microtubules,cilia,microvilli chloroplasts , cell wall,plasmodesmata, large permanent vacuole and tonoplast of plant cells</p> <p>define resolution and magnification and explain the differences between these terms, with reference to light microscopy and electron microscopy</p> <p><b>Resources needed:</b></p> <p><u>Laptop, Text book, Online resources like save my exam. Videos from youtube</u></p> <p><b>Homework/Assignments:</b></p> <p>Reading lesson 1 of your text book,</p> <p>Solve the given topical questions/end of chapter questions .</p> |



| CHEMISTRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ACCOUNTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <p><b>Topics:</b> Atomic Structure</p> <p><b>Learning Objectives:</b></p> <p>I. I Particles in the atom and atomic radius</p> <p>1.2 Isotopes</p> <p>I .3 Electrons, energy levels and atomic orbitals 1.4 Ionisation Energy</p> <p><b>Resources needed:</b></p> <p>Textbook,</p> <p><b>Homework/Assignments:</b></p> <p>End of the chapter textual Questions</p>                                                                                                                                                                                                                                                                                                                                     | <p><b>Topics:</b> Introduction to double entry system</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"> <li>understand debits and credits mechanics.</li> <li>apply the accounting equation (Assets = Liabilities + Equity).</li> <li>record basic transactions using T-accounts.</li> </ul> <p><b>Resources needed:</b> Text books , Task Sheets</p> <p><b>Homework/Assignments:</b> End of Text book questions</p>                                                                                                                                                                                                                                                                                                                                  |
| ISLAMIC ARABIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ISLAMIC EDUCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>Topics:</b></p> <p>سورة الأحزاب الثبات على الحق</p> <p><b>Learning Objectives:</b></p> <p>. أن يستمع للآيات الكريمة مراعيًا أحكام التجويد</p> <p>. أن يفسر مفردات الآيات</p> <p>. أن يبين دلالة عظمة الله في خلقه</p> <p>. أن يوضح دلالة الآيات الكريمة</p> <p>. أن يحرص على القيم التي تضمنتها الآيات الكريمة</p> <p><b>Resources needed:</b></p> <ul style="list-style-type: none"> <li>القرآن الكريم.</li> <li>الكتاب المدرسي.</li> <li>السبورة الذكية وجهاز العرض.</li> <li>بطاقات تدريب على أحكام التجويد</li> <li>أوراق عمل للتدريب على التلاوة</li> </ul> <p><b>Homework/Assignments:</b></p> <p>التدرب على تلاوة الآيات في المنزل تلاوة صحيحة</p> <p>. حفظ الآيات الكريمة محل الدرس</p> | <p><b>Topic:</b> Surah Al-Ahzab – Steadfastness Upon the Truth</p> <p><b>Learning Objectives</b></p> <p>By the end of the lesson, students will be able to:</p> <ul style="list-style-type: none"> <li>Listen attentively to the Qur'anic verses while observing the rules of <b>Tajweed</b>.</li> <li>Explain the meanings of the key vocabulary found in the verses.</li> <li>Describe the signs of Allah's greatness and power as reflected in His creation.</li> <li>Explain the messages and lessons conveyed in the Qur'anic verses.</li> <li>Demonstrate a commitment to the Islamic values and morals emphasized in the verses.</li> </ul> <p><b>Resources Needed</b></p> <ul style="list-style-type: none"> <li>The Holy Qur'an</li> <li>Student Textbook</li> </ul> |



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| ECONOMICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BUSINESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p><b><u>Topics:</u></b><br/>Economic methodology</p> <p><b><u>Learning Objectives:</u></b><br/>To explain economics is a social science<br/>To differentiate between facts and opinions<br/>To explain why economists use the term ceteris paribus<br/>To explain when to refer to a time period such as<br/>Short run , long run and very long run</p> <p><b><u>Resources needed:</u></b><br/>Text book<br/>Past paper questions<br/>Task sheet</p> <p><b><u>Homework/Assignments:</u></b><br/>Topical questions</p> | <p><b><u>Topics:</u></b><br/>1.1 Enterprise 1.1.1 The nature of business activity</p> <p><b><u>Learning Objectives:</u></b><br/><br/>To explain the factors of production needed for business activity: land, labour, capital and enterprise<br/>To explain the concept of adding value<br/>To explain the nature of economic activity, the problem of choice and opportunity cost<br/>To explain the dynamic business environment<br/>To explain why businesses succeed<br/>To explain why many businesses fail</p> <p><b><u>Resources needed:</u></b><br/>Business ISBN:9781108921220<br/>Topical questions<br/>Case studies</p> <p><b><u>Homework/Assignments:</u></b><br/>Practice topical case studies</p> |
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