



## LEARNING TRAILS AY 2024-25

GRADE: 10

TERM 1\_WEEK 12 ( 11<sup>th</sup> November to 15<sup>th</sup> November 2024)

ENGLISH	MATHEMATICS
<p><b>Topics:</b> Writing ( Report&amp; Essay)</p> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"><li>1.communicate information, ideas and opinions</li><li>2. use appropriate register and style for the given purpose and audience</li></ol> <p><b>Resources needed:</b></p> <p>Past papers</p> <p><b>Notebooks</b></p> <p><b>Homework/Assignments:</b></p>	<p><b>Topics:</b></p> <p>Vectors</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>• Understand the meaning of a vector and identify vectors.</li><li>• Know different ways of representing vectors.</li><li>• Add and subtract column vectors.</li><li>• Draw and label the column vectors.</li><li>• Multiplication of vectors by scalars</li><li>• Addition and subtraction of vectors using nose-to-tail method</li></ul> <p><b>Resources needed:</b></p> <p>Textbook, Calculator, ATS questions</p> <p><b>Homework/Assignments:</b></p> <p>Daily practice questions, Topic-wise past papers</p>
ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b></p> <p>(بنك البذور (نص معلوماتي</p> <p><b>Learning Objectives:</b></p> <p>أن يحدد المتعلم الفكر الرئيسية من خلال تحليل المعلومات الصريحة والضمنية</p> <p>أن يدمج المتعلم المعلومات المقدمة في موضوع محدد باستخدام وسائل مختلفة مثل : نص مطبوع ، رسوم بيانية ، مقاطع فيديو</p> <p><b>Resources needed:</b></p> <p>الكتاب المدرسي - الدفتر المدرسي - العرض التقديمي - السبورة الذكية</p> <p><b>Homework/Assignments:</b></p> <p>حل تمارين الدرس ص92-95</p>	<p><b>Topics</b></p> <p>أنا إنسان ناجح</p> <p><b>Learning Objectives:</b></p> <p><u>أن يتعرف الطالب المفردات الجديدة</u></p> <p><u>أن يذكر الطالب عناصر القصة</u></p> <p><u>أن يحدد الطالب الدرس المستفاد من القصة</u></p> <p><b>Resources needed:</b></p> <p><u>الكتاب المدرسي بوربوينت أنشطة تعليمية صفية</u></p> <p><b>Homework/Assignments:</b></p> <p><u>كتابة مقال عن شخصية ناجحة في الحياة</u></p>



PHYSICS	BIOLOGY
<p><b>Topics:</b> 5.2.1 Detection of radioactivity</p> <p><b>Learning Objectives:</b> Describe background radiation and sources of it.  Explain how can measurements of background radiation to determine a corrected count rate</p> <p><b>Resources needed:</b> PPTs, Alpha decay simulation: <a href="https://phet.colorado.edu/en/simulation/legacy/alpha-decay">https://phet.colorado.edu/en/simulation/legacy/alpha-decay</a> Task sheets</p> <p><b>Homework/Assignments:</b> Past paper IGCSE</p>	<p><b>Topics:</b> Reproduction in plants</p> <p><b>Learning Objectives:</b> Identify in diagrams and images and describe the anthers and stigmas of a wind-pollinated flower Distinguish between the pollen grains of insect-pollinated and wind-pollinated flowers Describe pollination as the transfer of pollen grains from an anther to a stigma Describe self-pollination and Cross pollination. Discuss the potential effects of self-pollination and cross-pollination on a population, Describe the growth of the pollen tube and its entry into the ovule followed by fertilization investigate and describe the environmental conditions that affect germination of seeds, Identify on diagrams and state the functions of the following parts of the male reproductive system: testes, scrotum, sperm ducts, prostate gland, urethra and penis</p> <p><b>Resources needed:</b> PPT, text book and task sheets.</p> <p><b>Homework/Assignment</b> Past papers, diagrams and Reading text book</p>
CHEMISTRY	ICT
<p><b>Topics:</b> Chemical Reactions</p> <p><b>Learning Objectives:</b> State the symbol equation for the production of ammonia in the Haber process. State the sources of the hydrogen (methane) and nitrogen (air) in the Haber process. State the typical conditions in the Haber process State the symbol equation for the conversion of sulfur dioxide to sulfur trioxide in the Contact proces</p>	<p><b>Topics:</b> Chapter 8 – malwares Practical: Word, Database and Presentations</p> <p><b>Learning Objectives:</b> Malwares: Differentiate between different malwares Discuss phishing, pharming and smishing Practical:</p>



<p>State the sources of the sulfur dioxide (burning sulfur or roasting sulfide ores) and oxygen (air) in the Contact process</p> <p>State the typical conditions for the conversion of sulfur dioxide to sulfur trioxide in the Contact process</p> <p>Explain, in terms of rate of reaction and position of equilibrium, why the typical conditions stated are used in the Haber process and in the Contact process, including safety considerations and economics</p> <p><b>Resources needed:</b> Videos, PPTs, Workbook, Textbook</p> <p><b>Homework/Assignments:</b> Daily Questions, Weekly Assignment, Past paper questions</p>	<p>Students will be able to solve the complete task of Paper 2 (Word documentation, database and presentation)</p> <p><b>Resources needed:</b> PPTs, Textbook,</p> <p><b>Homework/Assignments:</b> Practice past paper June 2020 –paper 21 (Full paper excluding mail merge)</p>
<p style="text-align: center;"><b>ISLAMIC ARABIC</b></p>	<p style="text-align: center;"><b>ISLAMIC EDUCATION</b></p>
<p><b>Topics:</b> مراحل جمع القرآن الكريم وتدوينه</p> <p><b>Learning Objectives:</b> أن يوضح مراحل جمع القرآن الكريم أن يوضح الفرق بين جمع القرآن في عهد أبي بكر والنسخ في عهد عثمان بن عفان رضي الله عنهما</p> <p><b>Resources needed:</b> الكتاب المدرسي اليوتيوب أنشطة صفية</p> <p><b>Homework/Assignments:</b> حل أنشطة الطالب بالكتاب المدرسي مراجعة اليوتيوب للدرس</p>	<p><b>Topics:</b> Stages of the Collection of the Qur'an</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>• <b>Understand</b> the historical context and reasons for the collection of the Qur'an.</li><li>• <b>Identify</b> key figures and events involved in each stage of the Qur'an's collection.</li><li>• <b>Describe</b> the methods and materials used during the Prophet's time, Caliph Abu Bakr's time, and Caliph Uthman's time for the collection and preservation of the Qur'an.</li></ul> <p><b>Resources needed:</b> <b>Textbooks and Handouts:</b> Islamic Studies textbook covering the collection and preservation of the Qur'an.</p> <p><b>Homework/Assignments:</b> Complete a worksheet on the stages of the Qur'an's collection with questions requiring detailed answers on key figures, events, and materials used.</p>



ACCOUNTING	BUSINESS STUDIES
<p><b><u>Topics:</u></b> Disposal of non current asset</p> <p><b><u>Learning Objectives:</u></b> To formulate ledger accounts on disposal and to calculate the profit/loss on disposal</p> <p><b><u>Resources needed:</u></b> Text book Formats Task Sheets</p> <p><b><u>Homework/Assignment:</u></b> Topical questions</p>	<p><b><u>Topics:</u></b> Acheiving Quality produciton</p> <p><b><u>Learning Objectives:</u></b> To</p> <ul style="list-style-type: none"> <li>• analyze the concept of quality and the importance of quality</li> <li>• analyze the difference between quality control and quality assurance</li> <li>• explain the importance of businesses establishing quality-assurance systems</li> </ul> <p><b><u>Resources needed:</u></b> Text Book Topical case studies- uploaded in teams</p> <p><b><u>Homework/Assignments:</u></b> Practice topical past papers</p>
ECONOMICS	
<p><b><u>Topics:</u></b> Population</p> <p><b><u>Learning Objectives:</u></b> To describe the factors affecting population To analyze the reasons for different rates of population growth To discuss the effects of changes in the size and structure of population</p> <p><b><u>Resources needed:</u></b> <u>Textbook</u> Topical questions</p> <p><b><u>Homework/Assignments:</u></b> Topical questions will be uploaded in teams</p>	