



## LEARNING TRAILS AY 2024-25

GRADE: 11

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

### Cycle Test Schedule –

Monday (11 /11/24)

Biology /Accounting

IT	MATHEMATICS
<p><b>Topics:</b> Hardware and software: Utility software. Custom-written software and off-the-shelf software. User interfaces. Data analysis.</p> <p><b>Learning Objectives:</b> Explain the need for different utility software including: anti-virus, back-up, data compression, disk defragmentation (including understanding the structure of hard disk storage), formatting (including low-level, partitioning and high-level), file copying –deleting files. Differentiate between Custom-written software and off-the-shelf software.</p> <p>Analyze the advantages and disadvantages of different types of custom-written and off-the-shelf software. Differentiate between proprietary and open-source software.</p> <p><b>Resources needed:</b> Computer system, smart board, task sheets</p> <p><b>Homework/Assignments:</b> Solve past paper questions</p>	<p><b>Topics:</b> Circular Measures</p> <p><b>Learning Objectives:</b> Students shall be able to:</p> <ul style="list-style-type: none"> <li>understand the definition of a radian, and use the relationship between radians and degrees</li> <li>use the formulae <math>Arc\ Length = r\theta</math> and <math>Sector\ Area = \frac{1}{2}r^2\theta</math> where <math>\theta</math> is in radian in solving problems concerning the arc length and sector area of a circle including calculation of lengths and angles in triangles and areas of triangles</li> </ul> <p><b>Resources needed:</b> Smartboards, Micro-Soft PPT, ATS questions, Softcopy of Textbook</p> <p><b>Homework/Assignments:</b> <a href="#">Search Results</a></p>



ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> <u>النسب</u></p> <p><b>Learning Objectives:</b> <u>أن يتعرف المتعلم النسب</u> <u>أن يصوغ النسب صياغة صحيحة</u> <u>أن يوظف النسب في مواقف حياتية</u></p> <p><b>Resources needed:</b> <u>الكتاب المدرسي - العرض التقديمي - أنشطة تعليمية</u></p> <p><b>Homework/Assignments:</b> <u>حل أسئلة الكتاب المدرسي - حل أوراق العمل</u></p>	<p><b>Topics Learning</b> <u>جمع المذكر السالم</u></p> <p><b>Objectives:</b></p> <ul style="list-style-type: none"><li>• فهم معنى جمع المذكر السالم وقواعد تكوينه.</li><li>• القدرة على تطبيق جمع المذكر السالم في جمل بسيطة.</li><li>• التمييز بين جمع المذكر السالم والجمع الآخر (مثل جمع جمع (المؤنث السالم وجمع التكسير).</li></ul> <p><b>Resources needed:</b> <u>الانترنت - العرض التقديمي - أوراق عمل</u></p> <p><b>Homework/Assignments:</b> حول الكلمات التالية إلى جمع المذكر السالم واستخدمها في جمل من إنشائك:</p> <ul style="list-style-type: none"><li>• طبيب</li><li>• مدير</li><li>• لاعب</li><li>• صديق</li><li>• كاتب</li></ul>
PHYSICS	BIOLOGY
<p><b>Topics:</b> Work Energy and power</p> <p><b>Learning Objectives:</b> Solve numerical for power, k.E, P.E. Efficiency, work done on an object moving in an inclined plane, problem solving for work done against friction type qns</p> <p><b>Resources needed:</b> Copy notebook, course book, past papers, activity sheet, pictures</p> <p><b>Homework/Assignments:</b> Past papers [2016-2022] MCQ and SQ</p>	<p><b>Topics:</b> Cell Membrane</p> <p><b>Learning Objectives:</b> outline the main stages in the process of cell signalling leading to specific responses:</p> <ul style="list-style-type: none"><li>• secretion of specific chemicals (ligands) from cells</li><li>• transport of ligands to target cells</li><li>• binding of ligands to cell surface receptors on target cells</li></ul> <p><b>Resources needed:</b> Past Papers, Video, PPT Text Book</p> <p><b>Homework/Assignments:</b></p>



	<p><a href="http://www.wisc-online.com/learn/natural-science/life-science/ap1101/construction-of-the-cell-membrane">www.wisc-online.com/learn/natural-science/life-science/ap1101/construction-of-the-cell-membrane</a> Sketch the diagrams of endocytosis and exocytosis and compare the process.</p>
CHEMISTRY	ACCOUNTING
<p><b>Topics: Chemical Equilibria</b></p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>• Understand the concept of dynamic equilibrium in reversible reactions.</li><li>• Apply Le Chatelier's Principle to predict the effects of changing conditions (concentration, pressure, temperature).</li><li>• Define and use the equilibrium constant (<math>K_c</math>) for reactions in solution.</li><li>• Understand and apply calculations involving the equilibrium constant (<math>K_c</math>).</li></ul> <p><b>Resources needed:</b></p> <ol style="list-style-type: none"><li>1. <b>extbook:</b> Cambridge International AS and A Level Chemistry Coursebook – Chapter on Chemical Equilibria.</li><li>2. <b>PowerPoint Presentation:</b> Slides explaining key concepts such as dynamic equilibrium, Le Chatelier's Principle, and equilibrium constant expressions.</li><li>3. <b>Interactive Simulations:</b> Online resources like PhET Interactive Simulations for dynamic equilibria and Le Chatelier's Principle.</li><li>4. <b>Worksheet:</b> Problems on calculating <math>K_c</math> and applying Le Chatelier's Principle.</li></ol> <p><b>Homework/Assignments:</b></p> <ul style="list-style-type: none"><li>• <b>Worksheet:</b> Complete the assigned questions on equilibrium constant calculations and Le Chatelier's Principle.</li></ul>	<p><b>Topics:</b> Partnership Accounting</p> <p><b>Learning Objectives:</b> To formulate partnership Income Statement and appropriation account</p> <p><b>Resources needed:</b> Text book Formats Task Sheets</p> <p><b>Homework/Assignments:</b> Topical questions</p>



<ul style="list-style-type: none"> <li><b>Exam-style Questions:</b> A selection of past AS-Level questions on Chemical Equilibria to reinforce the lesson.</li> </ul>	
<b>ISLAMIC ARABIC</b>	<b>ISLAMIC EDUCATION</b>
<p><b>Topics:</b> آداب الحوار</p> <p><b>Learning Objectives:</b> أن يحدد آداب الحوار وصفات المحاور أن يتعلم آفات الحوار</p> <p><b>Resources needed:</b> الكتاب المدرسي اليوربوينت أنشطة صفية</p> <p><b>Homework/Assignments:</b> حل أنشطة الطالب بالكتاب المدرسي مراجعة اليوربوينت للدرس</p>	<p><b>Topics:</b> Sources of Islamic Sharia</p> <p><b>Learning Objectives:</b> <b>Identify Key Sources:</b> Understand that Islamic Sharia is based on guidance from Allah. <b>Introduce Primary Sources:</b> Recognize the Qur'an and Sunnah as the primary sources of Islamic Sharia.</p> <p><b>Resources needed:</b> Pictures or flashcards of the Qur'an and scenes representing the Prophet's Sunnah.</p> <p><b>Homework/Assignments:</b> Ask students to share a favorite part from a story they heard about the Qur'an or the Prophet's Sunnah.</p>
<b>ECONOMICS</b>	<b>BUSINESS</b>
<p><b>Topics:</b> Aggregate demand and supply analysis Economic growth</p> <p><b>Learning Objectives:</b> To analyze the market equilibrium in the long run To discuss the meaning of economic growth To evaluate the causes of economic growth To analyze the consequences of economic growth</p> <p><b>Resources needed:</b></p>	<p><b>Topics:</b> Marketing Mix Place and promotion</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"> <li>analyze the factors to consider when making promotion-mix decisions</li> <li>evaluate the methods used to measure the effectiveness of promotional spending</li> <li>evaluate the impact of developments in digital marketing</li> <li>analyze the importance of packaging in the marketing of a product</li> </ul>



<p>Textbook Smart board Topical questions <b><u>Homework/Assignments:</u></b> Past papers will be uploaded in teams</p>	<ul style="list-style-type: none"><li>• evaluate the importance of place in the marketing mix</li><li>• discuss different distribution channels and assess their appropriateness in different circumstances.</li></ul> <p><b><u>Resources needed:</u></b> Text book Topical case studies <b><u>Homework/Assignments:</u></b> Practice topical past papers</p>
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