



## LEARNING TRAILS AY 2024-25

GRADE: 11

TERM 2\_WEEK 4 (27<sup>th</sup> January to 31<sup>st</sup> January 2025)

IT	MATHEMATICS
<p><b>Topics:</b> Video and audio editing:</p> <p><b>Learning Objectives:</b> Editing a video clip to meet the requirements of its intended application and audience, including: trimming a video clip to remove unwanted footage. Splicing/joining together video clips. adding titles, subtitles and captions. Adding titles, subtitles and captions. Adding credits with appropriate source information. Using scrolling credits with appropriate blank lines. adding fading effects. adding pan and zoom effects. extracting a still image from a video clip.</p> <p><b>Resources needed:</b> Computer systems, Task sheets</p> <p><b>Homework/Assignments:</b> Solve past paper questions.</p>	<p><b>Topics:</b> 1. Geometric Distribution 2. Integration.</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"> <li>use formulae for probabilities for geometric distributions, and recognise practical situations where these distributions are suitable models</li> <li>use formulae for the expectation of the geometric distribution</li> <li>understand integration as the reverse process of differentiation and integrate <math>(ax + b)^n</math> (for any rational n except <math>-1</math>), together with constant multiples, sums and differences. <i>e.g.</i> <math>\int (2x^3 - 5x + 1)dx</math> <math>\int \frac{1}{(2x+3)^2} dx</math></li> <li>solve problems involving the evaluation of a constant of integration</li> </ul> <p><b>Resources needed:</b> Smartboards, PPTs, Textbook, Topic-wise Past Paper questions on Binomial Distributions and Integration</p> <p><b>Homework/Assignments:</b> <a href="#">Search Results</a>  <a href="#">Search Results</a>  <a href="#">Search Results</a>  <a href="#">Search Results</a></p>



ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> <u>أفعال المقاربة والشروع والرجاء</u></p> <p><b>Learning Objectives:</b> <u>أن يتعرف المتعلم أفعال المقاربة والشروع والرجاء</u> <u>أن يميز اسم وخبر الأفعال الناسخة</u> <u>أن يعرب جملة الفعل الناسخ إعرابا صحيحا</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 - كتابة موضوع تعبير</u></p>	<p><b>Topics:</b> <u>تابع طاقم الطائرة</u></p> <p><b>Learning Objectives:</b> <u>أن يتعرف كيفية تحديد عدد ساعات المضيفات</u> <u>أن يبحث عن الكلمات الجديدة ويضعها في جمل</u></p> <p><b>Resources needed:</b> <u>الكتاب - العرض التقديمي - الإنترنت</u></p> <p><b>Homework/Assignments:</b> <u>أكتب فقرة عن طاقم الطائرة</u></p>
PHYSICS	BIOLOGY
<p><b>Topics: waves</b></p> <p><b>Waves, stationary waves</b></p> <p><b>Learning Objectives:</b> show an understanding of experiments that demonstrate stationary waves using microwaves, stretched strings and air columns (it will be assumed that end corrections are negligible; knowledge of the concept of end corrections is not required) 3 explain the formation of a stationary wave using a graphical method, and identify nodes and antinodes 4 understand how wavelength may be determined from the positions of nodes or antinodes of a stationary wave</p> <p><b>Resources needed:</b> Copy book, topical worksheet, ppt, simulation video, wi-fi, smart board, rope</p> <p><b>Homework/Assignments:</b> Activity sheet</p>	<p><b>Topics: 7</b></p> <p>Transport in Plants</p> <p><b>Learning Objectives:</b> describe the transport of water from the soil to the xylem through the: • apoplast pathway, including reference to lignin and cellulose • symplast pathway, including reference to the endodermis Casparian strip and suberin</p> <p><b>Resources needed:</b> Solve past papers ,topical questions</p> <p><b>Homework/Assignments:</b> make annotated drawings of transverse sections of leaves from xerophytic plants to explain how they are adapted to reduce water loss by transpiration</p>



CHEMISTRY	ACCOUNTING
<p><b>Topics:</b> Organic Chemistry</p> <p><b>Learning Objectives:</b> recall the reactions (reagents and conditions) by which alkanes can be produced: (a) addition of hydrogen to an alkene in a hydrogenation reaction, H<sub>2</sub> (g) and Pt/Ni catalyst and heat (b) cracking of a longer chain alkane, heat with Al<sub>2</sub>O<sub>3</sub></p> <p>describe: (a) the complete and incomplete combustion of alkanes (b) the free-radical substitution of alkanes by Cl<sub>2</sub> or Br<sub>2</sub> in the presence of ultraviolet light, as exemplified by the reactions of ethane</p> <p>3 describe the mechanism of free-radical substitution with reference to the initiation, propagation and termination steps</p> <p><b>Resources needed:</b> Textbook, Save My Exams</p> <p><b>Homework/Assignments:</b> Textual and Topical Questions</p>	<p><b>Topics:</b> Incomplete Records</p> <p><b>Learning Objectives:</b> To formulate financial statements from incomplete records To apply the concept of Mark up and Margin</p> <p><b>Resources needed:</b> Text book Task Sheet Formats and formulas</p> <p><b>Homework/Assignments:</b> Topical questions</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p><b>Topics:</b> أقسام الحديث الشريف</p> <p><b>Learning Objectives:</b> التعرف على أقسام الحديث الشريف (الصحيح، الحسن، الضعيف). استنتاج شروط الحديث الصحيح وتحليل أهمية تصنيف الأحاديث في التشريع الإسلامي.</p> <p><b>Resources needed:</b></p> <ul style="list-style-type: none"><li>• الكتاب المدرسي</li><li>• العرض التقديمي</li><li>• السبورة الذكية</li></ul>	<p><b>Topics:</b> Categories of Hadith (Aqsaam al-Hadith ash-Sharif)</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>• Recognize the categories of Hadith (Sahih, Hasan, Da'if).</li><li>• Deduce the conditions of Sahih Hadith and analyze the importance of classifying Hadith in Islamic jurisprudence.</li></ul> <p><b>Resources needed:</b></p> <ul style="list-style-type: none"><li>• Textbook</li><li>• Presentation</li><li>• Smartboard</li></ul>



<ul style="list-style-type: none"><li>• الانترنت</li><li>• الجهاز اللوحي</li></ul> <p><b>Homework/Assignments:</b></p> <ul style="list-style-type: none"><li>• مُراجعة العرض التقديمي للدرس</li><li>• حل أنشطة الطالب بالكتاب المدرسي</li></ul>	<ul style="list-style-type: none"><li>• Internet</li><li>• Tablet device</li></ul> <p>1. <b>Homework/Assignments:</b></p> <ol style="list-style-type: none"><li>2. Review the lesson presentation.</li><li>3. Complete the student activities in the textbook.</li></ol>
<b>ECONOMICS</b>	<b>BUSINESS</b>
<p><b>Topics:</b> International trade and protectionism , balance of payments</p> <p><b>Learning Objectives:</b> To analyze the export subsidy To describe the advantages and disadvantages of protectionism To evaluate the impact of protectionism To discuss the balance of payments Class test every Tuesday</p> <p><b>Resources needed:</b> Text book Calculators Past paper questions Topical questions</p> <p><b>Homework/Assignments:</b> Solving past paper</p>	<p><b>Topics:</b> Costs</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>• analyze the differences between full costing and contribution costing</li><li>• apply and evaluate the technique of contribution costing</li><li>• apply contribution costing to accept/reject special order decisions</li><li>• draw and interpret break-even charts and calculate the break-even point</li><li>• apply and evaluate break-even analysis in simple business decision-making situations.</li></ul> <p><b>Resources needed:</b> E book- Topical case studies</p> <p><b>Homework/Assignments:</b> Practice past papers.</p>