



## **LEARNING TRAILS AY 2024-25**

GRADE: 11 TERM 2\_WEEK 5 (3<sup>rd</sup> February to 7<sup>th</sup> February 2025)

IT	MATHEMATICS
Topics:	Topics:
Expert system.	INTEGRATION
Video and Audio editing	Learning Objectives:
Learning Objectives:	evaluate definite integrals Including simple cases
Editing a video clip to meet the requirements of its intended application and audience, including: adding audio to a video clip editing audio within a video clip altering the speed of a video clip exporting a video clip in different file formats (including: MP4, AVI, MOV, WMV). compressing a video to different resolutions to suit different media (including: DVD, internet, mobile devices).	of 'improper' integrals, such as $\int_0^1 x^{-\frac{1}{2}} dx$ and $\int_1^\infty x^{-2} dx$ • use definite integration to find the area of a region bounded by a curve and lines parallel to the axes, or between a curve and a line or between two curves • use definite integration to find a volume of revolution about one of the axes  Resources needed:
Describe here are an extense and the	Smartboards, PPTs, Textbook, Topic-wise Past Paper
Describe how expert systems are used to	questions on Integration
produce possible solutions for different scenarios.	Homework/Assignments: Search Results
Explain the functions of different components in	<u>Search Results</u>
expert system.	Search Results
Resources needed:	<u> </u>
PPT, Smart board, computer system, task sheets.	
Homework/Assignments:	
Solve past paper questions.	





ADVANCED ARABIC	GENERAL ARABIC
Topics:	Topics:
قصيدة الطين	رحلة إلى الصحراء
Learning Objectives:	Learning Objectives:
أن يحدد المتعلم الفكرة الرئيسة والفكر الفرعية للنص	أن يتعرف على أنواع الصحراء
أن يستنتج الدلالات التعبيرية والإيحانية في النص	أن يحدد الفكرة الرئيسية والفرعية للفقرة
أن يفسر معانى المفردات مستخدما المعجم الورقى والرقمي	أن يقرأالكلمات الجديدة
Resources needed:	Resources needed:
الكتاب المدرسي - العرض التقديمي - أنشطة تعليمية	الكتاب - العرض التقديمي
Homework/Assignments:	Homework/Assignments:
حل أسئلة الكتاب المدرسي - كتابة موضوع تعبير	كتابة الموضوع الثالث من موضوعات الكتابة
PHYSICS	BIOLOGY
<u>Topics:</u> waves	Topics: Transport in plants and Transport in
Diffraction Grating, Factors affecting Young's	Mammals
double slit experiment	Learning Objectives:
Assessment for waves	explain how companion cells transfer assimilates to
<u>Learning Objectives:</u>	phloem sieve tubes, with reference to proton pumps
recall and use $d$ sin $\vartheta = n\lambda$	and cotransporter proteins
2 describe the use of a diffraction grating to	explain mass flow in phloem sieve tubes down a
determine the wavelength of light	hydrostatic pressure gradient from source to sink
Discuss and explain various factors related	describe the functions of the main blood vessels of
with Youngs double slit experiment	the pulmonary and systemic circulations, limited to
Barra and def	pulmonary artery, pulmonary vein, aorta and vena
Resources needed:	cava
Animations, topical Question, copy book,	Resources needed:
Internet, pictures	Solve Past paper questions, videos
Homework/Assignments:	Homework/Assignments:
June 2016-Nov 2022 for the content related with	Solve end of the topic questions from text book.
diffraction grating	





CHEMISTRY	ACCOUNTING
Topics: Hydrocarbons  Learning Objectives: Recall the reactions (including reagents and conditions) by which alkenes can be produced: (a) elimination of HX from a halogenoalkane by ethanolic NaOH and heat (b) dehydration of an alcohol, by using a heated catalyst (e.g. Al 2 O3 ) or a concentrated acid (c) cracking of a longer chain alkane	Topics:  Marginal Costing  Learning Objectives:  To understand and to analyse -how to calculate the contribution of a product • how to interpret a breakeven chart Note: Candidates will not be asked to prepare a break-even chart. • how to calculate the break-even point, contribution to sales ratio, level of output or sales to achieve a target profit, and margin of safety • the use and limitations of break-even
2 describe the following reactions of alkenes:  (a) the electrophilic addition of  (i) hydrogen in a hydrogenation reaction, H2 (g) and Pt/Ni catalyst and heat  (ii) steam, H2 O(g) and H3 PO4 catalyst  (iii) a hydrogen halide, HX(g) at room temperature  Resources needed: Topical Questions from Save My exams Homework/Assignments: Textual Questions Past Papers	analysis  Resources needed: Task Sheet Formats and Formulas Text book Homework/Assignments: Topical questions
ISLAMIC ARABIC	ISLAMIC EDUCATION
Topics:  منهج الإسلام في بناء الأسرة  Learning Objectives:  التعرف على مفهوم الأسرة في الإسلام وأهميتها  استنتاج وظائف الأسرة في الإسلام ودورها في بناء  المجتمع  تحليل مظاهر اهتمام الإسلام بالأسرة وأثرها على استقرار  Resources needed:  الكتاب المدرسي  العرض التقديمي  العرض التقديمي	<ul> <li>Topics:</li> <li>Family Planing in Islam</li> <li>Learning Objectives:</li> <li>Understand the concept of family in Islam and its importance.</li> <li>Identify the functions of the family in Islam and its role in building society.</li> <li>Analyze the aspects of Islam's care for the family and its impact on societal stability.</li> </ul>





<ul> <li>Homework/Assignments:</li> <li>حل أنشطة الكتاب المدرسي</li> <li>مراجعة العرض التقديمي للدرس</li> </ul>	Resources Needed:
ECONOMICS	BUSINESS
Topics:	Topics:
Balance of payments and exchange rates	Budget
Learning Objectives:	Learning Objectives:
To calculate the current account balance	Analyse the benefits of setting budgets
To describe the causes and consequences of	Examine the importance of types of budgeting:
imbalances in the current account.	incremental, zero and flexible
To describe the fixed and floating exchange rate	Analyse the potential limitations of budgeting
To analyze the causes and consequences of the	Apply variance analysis to assess adverse and
fixed and floating exchange rate	favorable variances from budgets
Resources needed:	Resources needed:
Textbook	E book, Topical questions uploaded in teams
Calculators	Homework/Assignments:
Topical questions	Practice past papers
Homework/Assignments:	
Topical past papers	