



## LEARNING TRAILS AY 2024-25

GRADE: 12

TERM 2\_WEEK 7 (17<sup>th</sup> February to 21<sup>st</sup> February 2025)

IT	MATHEMATICS
<p><b><u>Topics:</u></b> Project management: Tools and techniques for project management tasks. Programming for the web.</p> <p><b><u>Learning Objectives:</u></b> Create Gantt charts. Interpret Gantt charts. Create PERT charts. Interpret PERT charts for the analysis and management of projects.</p> <p>Calculate critical path and identify the longest path of dependent activities.</p> <p>Describe advantages and disadvantages of Gantt charts, PERT charts and CPM.</p> <p>Use JavaScript loops for iterative methods, including:</p> <ul style="list-style-type: none"> <li>○ for loop</li> <li>○ for/in loop</li> <li>○ while loop</li> <li>○ do/while loop</li> </ul> <p><b><u>Resources needed:</u></b> Computer systems, chart, task sheets, ppt</p> <p><b><u>Homework/Assignments:</u></b> Solve past paper questions.</p>	<p><b><u>Topics:</u></b> Statistics – hypothesis testing</p> <p><b><u>Learning Objectives:</u></b> Understand the hypothesis testing, difference between the one tail, two tail test, null hypothesis, alternate hypothesis, significance level, rejection region , acceptance region Formulate hypothesis , understand type I error, type II error, Calculate probability of making type I error and type II error</p> <p><b><u>Resources needed:</u></b> Text book , past papers, calculator, normal distribution table</p> <p><b><u>Homework/Assignments:</u></b> Related past paper questions</p>



ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> قصة السماور</p> <p><b>Learning Objectives:</b> أن يتتبع المتعلم الأثر الذي يتركه أسلوب الكاتب لايصال الفكرة أن يحلل المتعلم الأفكار في القصة ويربطها بتجربة الكاتب أن يفسر المتعلم الكلمات الجديدة ويوظفها في جمل مفيدة</p> <p><b>Resources needed:</b> الكتاب المدرسي - الدفتر - العرض التقديمي</p> <p><b>Homework/Assignments:</b> حل تمرينات الدرس</p>	<p><b>Topics:</b> <u>عالم التقنيات</u></p> <p><b>Learning Objectives:</b> <u>ان يتعرف الطالب على المفردات الجديدة</u> <u>أن يستنتج المتعلم أهمية التقنيات الحديثة</u> <u>أن يتحدث المتعلم على أفضل تقنيات التكنولوجيا</u></p> <p><b>Resources needed:</b> <u>كتاب الطالب - الدفتر - السبورة الذكية</u></p> <p><b>Homework/Assignments:</b> <u>كتابة فقرة عن عالم التقنيات</u></p>
PHYSICS	BIOLOGY
<p><b>Topics:</b> Planning , Aalysis and Evaluation</p> <p><b>Learning Objectives:</b> Should be able to Find expression for gradient and y intercept from the given equation Calculate uncertainties in the quantities Plot points and draw best and worst acceptable lines</p> <p><b>Resources needed:</b> P52 – 2017 and 2018, 30cm long transparent rule, pencils and calculator.</p> <p><b>Homework/Assignments:</b> P42 2020 MAY and OCT</p>	<p><b>Topics:</b> Genetic technology</p> <p><b>Learning Objectives:</b> -Define the term recombinant DNA -Explain that genetic engineering is the deliberate manipulation of genetic material -Explain the roles of restriction endonucleases, DNA ligase, plasmids, DNA polymerase and reverse transcriptase in the transfer of a gene into an organism -Explain that gene editing is a form of genetic engineering</p> <p><b>Resources needed:</b> Stimulation, video, notebook, stationaries, calculator</p> <p><b>Homework/Assignments:</b> Solve the given topical questions.</p>



CHEMISTRY	ACCOUNTING
<p><b>Topics: 28</b> <b>28.1 General physical and chemical properties of the first row of transition elements, titanium to copper</b> <b>Learning Objectives:</b> 1. define a transition element as a d-block element which forms one or more stable ions with incomplete d orbitals sketch the shape of a <math>3d_{xy}</math> orbital and <math>3d_{z^2}</math> orbital 2. explain why transition elements have variable oxidation states in terms of the similarity in energy of the 3d and the 4s sub-shells 3. explain why transition elements behave as catalysts in terms of having more than one stable oxidation state, and vacant d orbitals that are energetically accessible and can form dative bonds with ligands <b>Resources needed:</b> <b>Smartboard, pastpaper , textbooks</b></p> <p><b>Homework/Assignments:</b> <b>Past paper question</b></p>	<p><b>Topics:</b> Revision –Business Purchase and IAS <b>Learning Objectives:</b> To understand the accounting treatment on business mergers and acquisitions To apply International Accounting Standards in financial reporting</p> <p><b>Resources needed:</b> <b>Text book</b></p> <p><b>Homework/Assignments:</b> Topical questions</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p><b>Topics:</b> <b>الزواج طريق الاستعفاف</b> <b>Learning Objectives:</b> أن يتلو الطلاب الآيات الكريمة تلاوةً صحيحةً ومجودةً وصحيحةً أن يفسر الطلاب معاني المفردات القرآنية أن يحلل الطلاب بعض دلالات الآيات الكريمة <b>Resources needed:</b> الكتاب المدرسي العرض التقديمي الشبكة العنكبوتية السيورة الذكية <b>Homework/Assignments:</b> حفظ الآيات الكريمة حل أنشطة الكتاب المدرسي مراجعة العرض التقديمي للدرس</p>	<p><b>Topics: Marriage: The Path to Chastity</b> <b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>• Students should recite the noble verses with proper Tajweed and accuracy.</li><li>• Students should interpret the meanings of Quranic vocabulary.</li><li>• Students should analyze some of the implications of the noble verses.</li></ul> <p><b>Resources Needed:</b></p> <ul style="list-style-type: none"><li>• Textbook</li></ul>



- Presentation
- Internet
- Smartboard

Homework/Assignments:

- Memorize the noble verses.
- Solve the textbook activities.
- Review the lesson presentation.

**BUSINESS**

**Topics:**

Finance and accounting strategy

**Learning Objectives:**

- apply accounting data to strategic decision-making
- evaluate business performance using accounting data and ratio analysis
- assess the impact of accounting data and ratio analysis on business strategy
- evaluate the impact of strategic decisions on ratio results
- evaluate the usefulness of published accounts and ratio analysis.

**Resources needed:**

E book, Topical Case studies

**Homework/Assignments:**

Practice past papers