



## LEARNING TRAILS AY 2024-25

GRADE: 12

TERM 1\_WEEK 13 (18<sup>th</sup> November to 22<sup>nd</sup> November 2024)

IT	MATHEMATICS
<p><b>Topics:</b> Communications technology: Cloud computing. Methods of sending data over a network. Animation.</p> <p><b>Learning Objectives:</b> Describe characteristics of cloud computing, including.  Analyze the advantages and disadvantages of cloud computing for individuals and organizations.  Differentiate between circuit switching, packet switching and message switching.  Explain tween in animation.  Demonstrate different tweens: shape tween, motion tween and classic tween. Use shape tween, motion tween and classic tween in adobe animate cc.</p> <p><b>Resources needed:</b> Computer systems with adobe animate CC, smart board, activity sheets.</p> <p><b>Homework/Assignments:</b> Solve past paper questions.</p>	<p><b>Topics:</b> Integration of trigonometric functions , using partial fraction , integration using derivative /function type</p> <p><b>Learning Objectives:</b> Extend the idea of integration of trigonometric functions, integration of rational functions using partial fraction method, extend the integration of linear rational functions and recognise and integrate derivative /function or tanx form</p> <p><b>Resources needed:</b> textbook, past papers</p> <p><b>Homework/Assignments:</b> Past paper questions related to the topics</p>



ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> اختبار في مهارة الاستماع</p> <p><b>Learning Objectives:</b> أن يحلل المتعلم المادة المسموعة محددا الفكر، والنقاط الرئيسة</p> <p><b>Resources needed:</b> الكتاب المدرسي - العرض التقديمي - المادة المسموعة</p> <p><b>Homework/Assignments:</b> مراجعة القواعد النحوية والبلاغية</p>	<p><b>Topics:</b> <u>درس مراحل حياة الإنسان</u></p> <p><b>Learning Objectives:</b> <u>أن يفسر المتعلم المفردات الجديدة</u> <u>أن يحلل المتعلم الدرس تحليلاً لغوياً صحيحاً</u> <u>أن يستنتج المتعلم صفات كل مرحلة من مراحل حياة الإنسان</u> <u>أن يقارن المتعلم بين مرحلة الطفولة ومرحلة الشيخوخة</u></p> <p><b>Resources needed:</b> <u>الكتاب المدرسي العرض التقديمي - السبورة الذكية</u></p> <p><b>Homework/Assignments:</b> <u>كتابة فقرة عن مرحلة الشباب</u></p>
PHYSICS	BIOLOGY
<p><b>Topics:</b> Magnetic field</p> <p><b>Learning Objectives:</b> Should be able to Find magnitude and direction of force on a current carrying wire in a uniform field. Calculate the force on a moving charged particle in a magnetic field and explain why it follows curved path. Describe velocity selector.</p> <p><b>Resources needed:</b> Calculator, copy book, sample questions</p> <p><b>Homework/Assignments:</b>  Topical Past paper questions – Electric field.</p>	<p><b>Topics:</b> Inheritance</p> <p><b>Learning Objectives:</b> Explain and predict the results of dihybrid crosses Explain and predict test crosses Explain the relationship between genes, proteins and phenotype (Example. Albinism ,Huntingtin , sickle cell anemia, Hemophilia) Explain the role of Gibberellin in stem elongation</p> <p><b>Resources needed:</b> Stationary ,Calculator ,Activity sheet or topical questions ,smart board</p> <p><b>Homework/Assignments:</b> Solve the given topical questions .</p>



CHEMISTRY	ACCOUNTING
<p><b>Topics:</b> 29 An introduction to A Level organic chemistry</p> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"><li>1. understand that the compounds in the table on page 47 contain a functional group which dictates their physical and chemical properties</li><li>2. interpret and use the general, structural, displayed and skeletal formulas of the classes of compound stated in the table on page 47</li><li>3. understand and use systematic nomenclature of simple aliphatic organic molecules (including cyclic compounds containing a single ring of up to six carbon atoms) with functional groups detailed in the table on page 47, up to six carbon atoms (six plus six for esters and amides, straight chains only for esters and nitriles)</li><li>4. understand and use systematic nomenclature of simple aromatic molecules with one benzene ring and one or more simple substituents, for example 3-nitrobenzoic acid or 2,4,6-tribromophenol</li></ol> <p><b>Resources needed:</b> <u>Smartboards, textbooks, notebooks.</u></p> <p><b>Homework/Assignments:</b> Practice past papers</p>	<p><b>Topics:</b> Business acquisition and merger</p> <p><b>Learning Objectives:</b> To analyse the nature and purpose of the merger of different types of businesses to form a new business entity</p> <ul style="list-style-type: none"><li>• how to prepare journal entries and make entries in the relevant ledger accounts to record the: – merger of two or more sole trader businesses to form a partnership or a limited company – merger of a sole trader’s business with an existing partnership to form a new partnership – acquisition of a sole trader’s business or partnership by a limited company</li><li>• how to calculate the value of goodwill on the acquisition of a business by another entity</li></ul> <p><b>Resources needed:</b> Text book Task Sheets Formats</p> <p><b>Homework/Assignments:</b> Topical questions</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p><b>Topics:</b> المسؤولية في الإسلام</p> <p><b>Learning Objectives:</b> أن يميز بين المسؤولية الفردية والجماعية أن يحدد نظرة الاسلام للمسؤولية والانسان أن يوضح مجالات المسؤولية الفردية</p> <p><b>Resources needed:</b> الكتاب المدرسي اليوتيوب أنشطة صفية</p>	<p><b>Topics:</b> Sheikha Fatima Bint Mubarak</p> <p><b>Learning Objectives:</b> Understand the significant contributions of Sheikha Fatima Bint Mubarak to women's empowerment and social welfare in the UAE. Recognize Sheikha Fatima's role in promoting Islamic values and humanitarian efforts locally and internationally.</p>



**Homework/Assignments:**

حل أنشطة الطالب بالكتاب المدرسي  
مراجعة البوربوينت للدرس

**Resources needed:**

Presentation or video highlighting Sheikha Fatima's initiatives and key achievements.  
Printed handouts or digital slides with information on her contributions to education, healthcare, and women's rights.

**Homework/Assignments:**

Write a short essay on the impact of Sheikha Fatima's work on UAE society, particularly on women's roles in education and leadership.

OR

Prepare a presentation on how Sheikha Fatima's initiatives align with Islamic values of charity, compassion, and community service.

**BUSINESS**

**Topics:**

Human Resource strategy

**Learning Objectives:**

to:

- evaluate the difference between hard HRM and soft HRM
- evaluate the impact on business of flexible employment contracts and flexible working
- analyse employee performance by using a range of measures
- assess ways in which employee performance might be improved
- analyse Management by Objectives, its implementation and usefulness
- assess the changing role of IT and AI in HRM.

**Resources needed:**

Textbook, Topical case studies

**Homework/Assignments:**

Practice Paper 4 – HR strategy- end of unit questions.