



LEARNING TRAILS AY 2024-25

GRADE: 12

TERM 2_WEEK 1 (6th January to 10th January 2025)

IT	MATHEMATICS
<p><u>Topics:</u> Communications technology: Cloud computing, Data transmission across networks. Animation.</p> <p><u>Learning Objectives:</u> Describe characteristics of cloud computing. Explain the uses of cloud computing. Describe the advantages and disadvantages of cloud computing for individuals and organizations. Differentiate between band width and bit rate. Describe the properties, features and characteristics of different transmission methods.</p> <p><u>Resources needed:</u> Smart board, task sheet, textbook</p> <p><u>Homework/Assignments:</u> Solve past paper questions</p>	<p><u>Topics:</u> VECTORS</p> <p><u>Learning Objectives:</u> Learn 1)to find and use scalar product of two vectors2)to find the vector equation of a line 3) find two lines are parallel , intersect, or skew 4) to find common point of two intersecting lines 5) find distance from a point to a given line</p> <p><u>Resources needed:</u> Text book, past papers</p> <p><u>Homework/Assignments:</u> Past paper questions</p>



ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: قصيدة جادك الغيث</p> <p>Learning Objectives: أن يبين المتعلم المعنى الإجمالي للنص الشعري أن يحلل المتعلم النص في سياقه التاريخي والاجتماعي أن يتتبع المتعلم الأثر الذي يتركه أسلوب الكاتب في النص</p> <p>Resources needed: الكتاب المدرسي - العرض التقديمي - السبورة الذكية</p> <p>Homework/Assignments: كتابة تقرير مبسط عن مظاهر وخصائص الشعر في العصر الأندلسي</p>	<p>Topics: <u>قصة نجاح</u></p> <p>Learning Objectives: <u>أن يتعرف المتعلم على المفردات الجديدة</u> <u>أن يفسر المتعلم معاني المفردات حسب الدرس</u> <u>أن يحلل المتعلم فقرات الدرس تحليلاً لغوياً صحيحاً</u> <u>أن يستنتج المتعلم الدروس المستفادة من القصة</u></p> <p>Resources needed: <u>الكتاب - الدفتر - السبورة الذكية - ال عرض التقديمي</u></p> <p>Homework/Assignments: <u>أن يكتب فقرة عن قصة نجاح شخصية إماراتية</u></p>
PHYSICS	BIOLOGY
<p>Topics: Alternating Current</p> <p>Learning Objectives: Should be able to Describe AC terms – frequency, peak, instantaneous and rms current. Derive equations for average power and rms current and voltage Explain how a bridge rectifier converts ac to dc, also explain how smoothing is achieved at the output. Solve problems related to ac.</p> <p>Resources needed: Calculator, copy book, sample questions</p> <p>Homework/Assignments: Do solve questions that are not answered correctly in the pre mock exam and topical past papers for the topic AC.</p>	<p>Topics: Selection and Evolution</p> <p>Learning Objectives: Student should be able to:- Explain different types of variation , use the t-test to compare the means of two different samples, Explain natural & artificial selection ,founder effect ,genetic drift and bottle neck effect . Outline how bacteria become resistant to antibiotics as an example of natural selection Use the Hardy–Weinberg principle to calculate allele and genotype frequencies in populations. Solve statistical problems related to different populations and plot different graphs</p> <p>Resources needed: Graph paper ,calculator , work sheets</p> <p>Homework/Assignments: solve the give worksheets and plot the graph . Refer marking scheme of Premock questions and revise the answers</p>



CHEMISTRY	ACCOUNTING
<p>Topics: 33.2 Esters, 33.3 Acyl chlorides</p> <p>Learning Objectives:</p> <p>1. recall the reaction by which esters can be produced: reaction of alcohols with acyl chlorides using the formation of ethyl ethanoate and phenyl benzoate as examples</p> <p>2. recall the reactions (reagents and conditions) by which acyl chlorides can be produced: (a) reaction of carboxylic acids with PCl_3 and heat, PCl_5 or $SOCl_2$</p> <p>Resources needed: Textbook, smartboard</p> <p>Homework/Assignments: Questions from past papers</p>	<p>Topics: International Accounting Standards</p> <p>Learning Objectives: To analyse the main provisions of the main provisions of each of the following International Accounting Standards (IAS): – IAS 1 Presentation of financial statements – IAS 2 Inventories – IAS 7 Statement of cash flows – IAS 8 Accounting policies, changes in accounting estimates and errors – IAS 10 Events after the reporting period</p> <p>Resources needed: Text book , Topical questions, Task Sheets, IAS booklet</p> <p>Homework/Assignments: Topical questions</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: «الزواج سبيلٌ للعفة» (سورة النور، الآيات 32–34)</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">فهم الآيات القرآنيةأن يتعرّف الطلاب على أهمّ تعاليم سورة النور (32–34) حول أهمية الزواج ودوره في تعزيز العفةالتطبيق العمليأن يستكشف الطلاب كيف يعمل الزواج، كما أوضحت الآيات، وسيلةً لحفظ القيم الأخلاقية والكرامة الشخصية في ضوء المنهج الإسلامي <p>Resources needed:</p> <ul style="list-style-type: none">المصحف الشريف وترجمات موثوقةلدراسة سورة النور (32–34) من المصدر الأصلي والاستعانة بتفاسير علمية رصينةالسبورة أو الوسائط الرقمية	<p>Topics: Marriage is a Path to Chastity: Surah An-Noor 32-34)</p> <p>Learning Objectives: Students will identify the key teachings from Surah An-Noor (32–34) regarding the importance of marriage and its role in promoting chastity.</p> <p>Resources needed: To study Surah An-Noor (32–34) directly from the source and reliable scholarly interpretations.</p> <p>Whiteboard / Digital Presentation Tool For noting down key points, managing group reflections, and displaying relevant commentary or discussion prompts.</p> <p>Homework/Assignments: Write a one-page reflection on how Surah An-Noor (32–34) emphasizes the role of marriage in safeguarding chastity. Include:</p>



- لتدوين النقاط الرئيسية، وتوثيق أفكار المجموعات، وعرض أي تعليقات أو إضاءات مرتبطة بالموضوع.

Homework/Assignments:

اكتب صفحة واحدة تبين فيها كيف تؤكد سورة النور (32-34) على دور الزواج في حفظ العقّة. تضمّن ما يلي:

1. أهم الدروس التي تعلّمتها عن التوجيهات الإسلامية في الزواج.

The main lessons you learned about Islamic guidance on marriage.

How these teachings can be practically applied in modern society to promote moral conduct.

BUSINESS

Topics:

Business Finance

Learning Objectives:

- analyse reasons why business activity requires finance
- analyse the importance of working capital to a business and how it is managed
- differentiate between capital expenditure and revenue expenditure
- analyse the different sources of long-term and short-term finance, both internal and external
- evaluate the factors managers consider when taking a finance decision
- recommend and justify appropriate sources of finance for different business needs.

Resources needed:

Topical questions with mark scheme- uploaded in teams

E- Book

Homework/Assignments:

Practice topical past papers.