



LEARNING TRAILS AY 2024-25

GRADE: 12

TERM 1_WEEK 11 (4th November to 8th November 2024)
Cycle Test Schedule on Monday November 4th Chemistry

IT	MATHEMATICS
<p>Topics: Communications technology: Types of networks. Characteristics of each type of network. Uses of each type of network. Components in a network. Network servers. Graphics.</p> <p>Learning Objectives: Describe different types of networks including: Client-server, peer-to-peer, VPN and mobile network.</p> <p>Differentiate between client-server network and peer-to-peer network.</p> <p>Analyze the advantages and disadvantages of client-server and peer-to-peer network.</p> <p>Describe the functions of different components of a network.</p> <p>Describe different network servers.</p> <p>Resources needed: Textbook, ppt, smart board, task sheets.</p> <p>Homework/Assignments: Solve the past paper questions from the topic.</p>	<p>Topics: Differentiation</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> • Use the derivatives of e^x, $\ln x$, $\sin x$, $\cos x$, $\tan x$ and $\tan^{-1} x$ together with constant multiples, sums, differences and composites • differentiate products and quotients • find and use the first derivative of a function which is defined parametrically or implicitly Including use in problems involving tangents and Normals. <p>Resources needed: Smartboards, MS PPTs, Whiteboards and markers, ATS questions, Topics-wise questions</p> <p>Homework/Assignments: Papers</p>
ADVANCED ARABIC	GENERAL ARABIC



<p>Topics: أفعال المقاربة والرجاء والشروع</p> <p>Learning Objectives: أن يتعرف المتعلم أفعال المقاربة والرجاء والشروع ومبدأ عملها أن يعرب المتعلم الجمل التي تتضمن أفعال المقاربة والرجاء والشروع إعراباً صحيحاً أن يوظف المتعلم أفعال المقاربة والرجاء والشروع في مواقف حياتية</p> <p>Resources needed: الكتاب المدرسي - الدفتر المدرسي - العرض التقديمي - السبورة الذكية</p> <p>Homework/Assignments: حل تمارين الدرس</p>	<p>Topics: <u>قواعد نحوية الحال</u></p> <p>Learning Objectives: <u>أن يتعرف الطالب على معنى الحال</u> <u>أن يحدد الطالب أنواع الحال</u> <u>أن يعرب الطالب الحال</u> <u>أن يستنتج الطالب القاعدة النحوية للحال</u></p> <p>Resources needed: <u>كتاب الطالب - السبورة الذكية - العرض التقديمي</u></p> <p>Homework/Assignments: <u>كتابة فقرة عن أهمية العلم موظفاً الحال</u></p>
<p style="text-align: center;">PHYSICS</p>	<p style="text-align: center;">BIOLOGY</p>
<p>Topics: Electric field, Capacitors</p> <p>Learning Objectives: Define electric potential and relate with electric field. Solve problems linked with concepts of field and potential. Explain how a capacitor stores energy Define capacitance and use defining equations to solve problems.</p> <p>Resources needed: Copy book, Calculator, sample questions</p> <p>Homework/Assignments: Topical questions from SHM and Electric field.</p>	<p>Topics: Coordination In plants & Inheritance</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">• describe the rapid response of the Venus fly trap and explain how the closure of the trap is achieved• explain the role of auxin• describe the role of gibberellin in the germination of barley• explain the need for a reduction division during meiosis• Explain different stages of meiosis• Interpret and construct genetic diagrams



	<p>Resources needed:note book ,stationary ,smart board</p> <p>Homework/Assignments: Solve the given questions</p>
CHEMISTRY	ACCOUNTING
<p>Topics: 26 Reaction kinetics</p> <p>Learning Objectives:</p> <p>1. calculate the numerical value of a rate constant, for example by: using the initial rates and the rate equation using the half-life, $t_{1/2}$, and the equation $k = 0.693 / t_{1/2}$</p> <p>2. for a multi-step reaction: suggest a reaction mechanism that is consistent with the rate equation and the equation for the overall reaction</p> <p>Resources needed: Smart boards, textbook, past papers</p> <p>Homework/Assignments: Question from past papers</p>	<p>Topics: Investment ratios</p> <p>Learning Objectives: How to calculate the following ratios: – working capital cycle (in days) – net working assets to revenue (sales) – interest cover – gearing ratio – earnings per share – price/earnings ratio – dividend per share – dividend yield – dividend cover</p> <ul style="list-style-type: none">• How to analyse and evaluate the results of the ratios and draw conclusions• How to make appropriate recommendations to stakeholders on the basis of the analysis undertaken <p>Resources needed: Text book, Formula Sheet, Task Sheet, Case Studies</p> <p>Homework/Assignments: Topical questions</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: السنن الربانية</p> <p>Learning Objectives: أن يوضح الطلاب مفهوم السنن الربانية وأقسامها أن يدلل على أهمية فهم السنن الربانية للفرد والمجتمع</p> <p>Resources needed: الكتاب المدرسي البوربوينت أنشطة صفية</p> <p>Homework/Assignments: حل أنشطة الطالب بالكتاب المدرسي مراجعة البوربوينت للدرس</p>	<p>Topics: Divine Laws</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">• Define and explain the concept of Divine Laws in Islam.• Understand the importance and purpose of Divine Laws in guiding human actions and moral conduct. <p>Resources needed:</p> <ul style="list-style-type: none">• (Interpretation): Passages related to Divine Laws.



- **Hadith Collection:** Pertinent hadith related to Divine guidance and laws

Homework/Assignments:

Select one verse and one hadith related to Divine Laws. Write a short reflection on how these teachings influence ethical behavior.

BUSINESS

Topics:

Business communication

Learning Objectives:

To:

- analyze the importance of effective communication to business
- evaluate the advantages and disadvantages of different communication methods
- analyze the causes of barriers to communication and how to overcome them
- evaluate the differences between one- and two-way, vertical and horizontal, formal and informal communication
- evaluate the role of management in facilitating communication.

Resources needed:

Text Book,

Topical case studies,

Topical Data response questions,

Mark schemes uploaded in teams

Homework/Assignments:

End of chapter questions