



## LEARNING TRAILS AY 2024-25

GRADE: 12

TERM 1\_WEEK 10 28<sup>th</sup> October to 1<sup>st</sup> November 2024)

IT	MATHEMATICS
<p><b><u>Topics:</u></b> System life cycle: Methods of software development. Prototyping.</p> <p><b><u>Learning Objectives:</u></b> Describe different methods of software development including: Iterative, incremental, agile, waterfall and RAD methods.</p> <p>Differentiate between agile and waterfall method.</p> <p>Explain types of prototyping and why each is needed.</p> <p>Describe advantages and disadvantages of each type of prototyping.</p> <p><b><u>Resources needed:</u></b></p> <p>Task sheets. <a href="http://www.teach-ict.com/as_a2_ict_new/ocr/A2_G063/331_systems_cycle/prototyping_RAD/miniweb/index.htm">www.teach-ict.com/as_a2_ict_new/ocr/A2_G063/331_systems_cycle/prototyping_RAD/miniweb/index.htm</a></p> <p><b><u>Homework/Assignments:</u></b> Solve past paper questions.</p>	<p><b><u>Topics:</u></b> Review of Algebra, Logarithm and Trigonometry</p> <p><b><u>Learning Objectives:</u></b> Consolidate on 3 topics</p> <p><b><u>Resources needed:</u></b> <a href="#">Search Results</a> <a href="#">Search Results</a></p> <p><b><u>Homework/Assignments:</u></b></p>



ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> كان وأخواتها</p> <p><b>Learning Objectives:</b> أن يحدد المتعلم عناصر جملة كان أن يتعرف المتعلم أشكال اسم كان وأشكال خبرها أن يعرب المتعلم جملة كان ويوظفها في جمل حياتية</p> <p><b>Resources needed:</b> الكتاب المدرسي - الدفتر المدرسي - مقطع فيديو - السبورة الذكية</p> <p><b>Homework/Assignments:</b> حل تمارين الدرس</p>	<p><b>Topics:</b> <u>الدرس الرابع طائر النعام</u></p> <p><b>Learning Objectives:</b> <u>أن يتعرف الطالب على المفردات الجديدة</u> <u>أن يحلل الطالب الدرس تحليلاً لغوياً صحيحاً</u> <u>أن يستخرج الطالب المهارات اللغوية والنحوية</u></p> <p><b>Resources needed:</b> <u>كتاب الطالب - العرض التقديمي - فيديو - السبورة الذكية</u></p> <p><b>Homework/Assignments:</b> <u>كتابة فقرة عن الحيوانات في دولة الإمارات العربية المتحدة</u></p>
PHYSICS	BIOLOGY
<p><b>Topics:</b> Electric Field</p> <p><b>Learning Objectives:</b> Should be able to Define Electric field strength State and apply Coulomb's law Apply concept of electric field and potential to solve problems</p> <p><b>Resources needed:</b> Copy book, calculator, sample problems</p> <p><b>Homework/Assignments:</b> Topical Past paper questions - SHM</p>	<p><b>Topics:</b> Coordination</p> <p><b>Learning Objectives:</b> 1)describe the roles of neuromuscular junctions, 2)describe the sequence of events that results in an action potential in a sensory neurone, using a chemoreceptor cell in a human taste bud as an example 3)describe and explain saltatory conducti 4)describe the roles of neuromuscular junctions, the T-tubule system and sarcoplasmic reticulum in stimulating contraction in striated muscle on</p> <p><b>Resources needed:</b> Note book ,stationary , Activity sheet</p> <p><b>Homework/Assignments:</b> Solve the given activity sheet</p>



CHEMISTRY	ACCOUNTING
<p><b>Topics: 26 Reaction kinetics</b></p> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"><li>(a) show understanding that the half-life of a first-order reaction is independent of concentration (b) use the half-life of a first-order reaction in calculations</li><li>calculate the numerical value of a rate constant, for example by: (b) using the initial rates and the rate equation (b) using the half-life, <math>t_{1/2}</math>, and the equation <math>k = 0.693 / t_{1/2}</math></li></ol> <p><b>Resources needed:</b> <b>Past papers, smart board, textbook</b></p> <p><b>Homework/Assignments:</b> <b>Textbook and past paper questions</b></p>	<p><b>Topics:</b> Cash flow Statement</p> <p><b>Learning Objectives:</b> To formulate statement of cash flows detailing cash flow from operating ,investing and financing activities</p> <p><b>Resources needed:</b> Text book IAS 7 handout Task sheets PPT</p> <p><b>Homework/Assignments:</b> Topical questions</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p><b>Topics:</b> (حديث الإفك (سورة النور)</p> <p><b>Learning Objectives:</b> أن يستنتج الطلاب فضل السيدة عائشة رضي الله عنها أن يبين الطلاب الآثار السلبية للشائعات على الفرد والمجتمع</p> <p><b>Resources needed:</b> الكتاب المدرسي البوربوينت أنشطة صفية</p> <p><b>Homework/Assignments:</b> حل أنشطة الطالب بالكتاب المدرسي مراجعة البوربوينت للدرس</p>	<p><b>Topics:</b> The Slander Against 'A'ishah (R.A) – Ifk"</p> <p><b>Learning Objectives:</b> Understand the historical context and significance of the event of Ifk (the slander against 'A'ishah R.A). Analyze the Islamic perspective on false accusations and the importance of verifying information.</p> <p><b>Resources needed:</b> <b>Islamic History Texts:</b> Biographies of the Prophet Muhammad (PBUH) and 'A'ishah (R.A). <b>Islamic Moral and Ethical Books:</b> Focus on sections regarding truthfulness, trust, and dealing with false accusations.</p> <p><b>Homework/Assignments:</b></p>



	<p>Students should research a modern-day example of slander or false accusations, comparing it with the incident of Ifk. They should write a 2-page report discussing the consequences of slander and how Islam teaches us to approach such situations.</p>
<b>BUSINESS</b>	
<p><b><u>Topics:</u></b></p> <p>Organisational structure</p> <p><b><u>Learning Objectives:</u></b></p> <p>To:</p> <ul style="list-style-type: none"><li>• analyze the relationship between business objectives and organisational structure</li><li>• analyze the different types of organizational structure, and their advantages and disadvantages</li><li>• assess the main features of a formal organisational chart</li><li>• evaluate the conflict between trust and control in delegation</li></ul> <p><b><u>Resources needed:</u></b></p> <p>E- Book –uploaded in teams</p> <p>Topical case studies</p> <p><b><u>Homework/Assignments:</u></b></p> <p>Practice Stratec questions .</p>	