



## LEARNING TRAILS AY 2024-25

GRADE: 10

TERM 1\_WEEK 9 (21<sup>st</sup> to 25<sup>th</sup> October 2024)

ENGLISH	MATHEMATICS
<p><b>Topics: Speaking</b></p> <p><b>Learning Objectives:</b></p> <ol style="list-style-type: none"><li>1. communicate ideas/opinions clearly, accurately and effectively .</li><li>2. develop responses and link ideas using a range of appropriate linking devices.</li><li>3. use a range of grammatical structures and vocabulary accurately and effectively.</li><li>4. show control of pronunciation and intonation patterns engage in a conversation and contribute effectively to help move the conversation forward.</li></ol> <p><b>Resources needed:</b> Topic cards, notebooks.</p> <p><b>Homework/Assignments:</b></p>	<p><b>Topics:</b> Mensuration: Arc length and sector area, Area of segment, Volume of 3D shapes</p> <p><b>Learning Objectives:</b></p> <p>To be able to find the arc length. To be able to find the sector area. To be able to calculate the area of segment. To be able to find the volume of 3D shapes.</p> <p><b>Resources needed:</b> Text book, Calculator, ATS Questions sheet, Past papers</p> <p><a href="https://www.youtube.com/watch?v=isuXeeWBVTk">https://www.youtube.com/watch?v=isuXeeWBVTk</a> <a href="https://www.youtube.com/watch?v=oUHs1EVe2jE">https://www.youtube.com/watch?v=oUHs1EVe2jE</a> <a href="https://www.youtube.com/watch?v=DI89-0_MihU">https://www.youtube.com/watch?v=DI89-0_MihU</a></p> <p><b>Homework/Assignments:</b> Daily practice questions, and exc. Questions.</p>
ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> قصيدة : بان الخليط</p> <p><b>Learning Objectives:</b> أن يحلل المتعلم النص الشعري تحليلاً فكرياً ونقدياً، موضحاً فكره الرئيسية والفرعية، والصور البيانية ودور الخيال والمحسنات اللفظية، وعناصره الموسيقية في إيجاد التأثير. أن يحفظ المتعلم أربعة نصوص من عيون الشعر في عصور مختلفة</p> <p><b>Resources needed:</b> الكتاب المدرسي - الدفتر المدرسي - العرض التقديمي - السبورة الذكية</p> <p><b>Homework/Assignments:</b> ( كتابة نبذة عن حياة الشاعر ) جرير بن عطية</p>	<p><b>Topics</b> الشغف بالعمل</p> <p><b>Learning Objectives:</b> أن يتعرف الطالب المفردات الجديدة أن يحدد الطالب أهمية التخطيط أن يذكر الطالب الفارق بين الشخص المخطط والشخص الذي لا يخطط</p> <p><b>Resources needed:</b> الكتاب المدرسي _ بوربوينت _ أنشطة صفية تعليمية</p> <p><b>Homework/Assignments:</b> أن يكتب الطالب عن أهمية التخطيط في حياتنا</p>



PHYSICS	BIOLOGY
<p><b>Topics:</b> 4.5.4 Force on a current-carrying conductor  4.5.5 The d.c. motor</p> <p><b>Learning Objectives:</b></p> <p>Describe an experiment to show that a force acts on a current-carrying conductor in a magnetic field, including the effect of reversing: a. the current b. the direction of the field</p> <p>Determine the direction of the force on beams of charged particles in a magnetic field</p> <p>Describe the operation of an electric motor, including the action of a split-ring commutator and brushes</p> <p><b>Resources needed:</b> <a href="https://www.olabs.edu.in/?sub=74&amp;brch=9&amp;sim=241&amp;cnt=4">https://www.olabs.edu.in/?sub=74&amp;brch=9&amp;sim=241&amp;cnt=4</a> <a href="https://www.geogebra.org/m/JSrCbknr">https://www.geogebra.org/m/JSrCbknr</a> <a href="https://javalab.org/en/dc_motor_en/">https://javalab.org/en/dc_motor_en/</a> <a href="https://www.youtube.com/watch?v=j_F4limaHYI">https://www.youtube.com/watch?v=j_F4limaHYI</a></p> <p><b>Homework/Assignments:</b></p>	<p><b>Topics:</b> Unit-14 and 15 Control and Coordination and Drugs.</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>• Explain phototropism and gravitropism of a shoot as examples of the chemical control of plant growth.</li><li>• Investigate and describe gravitropism and phototropism in shoots and root.</li><li>• Explain the role of auxin in controlling shoot growth,</li><li>• Describe a drug</li></ul> <p><b>Resources needed:</b> PPT, task sheets, videos, diagrams, worksheets.</p> <p><b>Homework/Assignments:</b> Diagrams, tasks, past papers.</p>



IGCSE past Paper 2018 May/June 2018 Q No:9	
<b>CHEMISTRY</b>	<b>ICT</b>
<p><b>Topics:</b> Rate of Reaction</p> <p><b>Learning Objectives:</b> Describe collision theory in terms of: (a) number of particles per unit volume (b) frequency of collisions between particles (c) kinetic energy of particles (d) activation energy, <math>E_a</math> State that a catalyst decreases the activation energy, <math>E_a</math>, of a reaction Describe and explain the effect on the rate of reaction using collision theory Describe and evaluate practical methods for investigating the rate of a reaction Interpret data, including graphs, from rate of reaction experiments</p> <p><b>Resources needed:</b> Periodic Table, workbook, textbook, ppt and videos, laboratory apparatus</p> <p><b>Homework/Assignments:</b> Daily Questions, weekly assignment and past paper questions</p>	<p><b>Topics:</b> Chapter 8- Cyber security and safety</p> <p><b>Learning Objectives:</b> <b>E Safety</b> Describe physical safety Describe E-safety Distinguish between the physical and E-safety</p> <p><b>Malwares</b></p> <ul style="list-style-type: none"><li>• Define Malware</li><li>• Identify different malware</li><li>• Differentiate the malwares</li></ul> <p><b>Resources needed:</b> PPTs, Past Paper questions, and Videos</p> <p><b>Homework/Assignments:</b> PRACTICAL ASSESSMENT - DATABASE</p> <p><b>TOPIC : DATABASE PRACTICAL</b></p> <p><b>DATE : 22<sup>nd</sup> , 23<sup>rd</sup> and 24<sup>th</sup> october 2024</b></p>



ISLAMIC ARABIC	ISLAMIC EDUCATION
<p><b>Topics:</b> قصة أصحاب الكهف</p> <p><b>Learning Objectives:</b> أن يتلو الطلاب الآيات تلاوةً مجودةً أن يستنتج الطلاب معاني مفردات الآيات الكريمة</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> <b>Surah Al-Kahf (9-27) – Companions of the Cave.</b></p> <p><b>Learning Objectives:</b> Understand the historical context of the story of the Companions of the Cave. Explain the main themes of Surah Al-Kahf verses 9-27, including faith, reliance on Allah, and the trials of life.</p> <p><b>Resources needed:</b> Tafsir books Whiteboard/Smartboard Multimedia presentation</p> <p><b>Homework/Assignments:</b></p>
ACCOUNTING	BUSINESS STUDIES
<p><b>Topics:</b> Correction of errors</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>To correct errors by means of journal entries</li><li>To explain the use of a suspense account as a temporary measure to balance the trial balance and to correct errors by means of suspense accounts</li></ul> <p><b>Resources needed:</b> Text book PPT Task Sheets</p> <p><b>Homework/Assignment:</b> Topical questions (to be assigned through teams)</p>	<p><b>Topics:</b> Operations management- Productivity and production</p> <p><b>Learning Objectives:</b> To analyze the difference between production and productivity.  To analyze the ways to improve productivity by reducing cost.</p> <p><b>Resources needed:</b> Textbook Case studies Topical questions</p> <p><b>Homework/Assignments:</b> Solve topical past papers.</p>



## ECONOMICS

**Topics:**

Economic growth

**Learning Objectives:**

To define economic growth

To analyze the factors influencing economic growth

To analyze the measurement of economic growth

**Resources needed:**

Textbook

Case studies

Topical questions

**Homework/Assignments:**

Solve topical questions