# LEARNING TRAILS AY 2024-25

**GRADE: 11** **TERM 2_WEEK 7 (17th February to 21st February 2025)**

| IT | MATHEMATICS |
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| **Topics:**<br>Algorithms and flowcharts.<br>Pseudocode.<br>**Learning Objectives:**<br>Draw a basic program flowchart to solve a given problem.<br><br>Draw a basic program flowchart that demonstrates a decision-making process.<br><br>Edit a given basic program flowchart that demonstrates a decision-making process.<br><br>Identify errors in an algorithm/program flowchart for a given scenario.<br><br>Writing an algorithm using pseudocode to solve a given problem, including:<br>–FOR…NEXT…STEP<br>–IF...ELSE...ENDIF<br>–WHILE...ENDWHILE<br>–REPEAT...UNTIL<br>–CASE...ENDCASE<br>**Resources needed:**<br>Task sheets, video, Computer systems.<br>**Homework/Assignments:**<br>Solve past paper questions. | **Topics:**<br>COMPLETE PAST PAPER REVISION<br>**Learning Objectives:**<br>To recall all concepts learnt during the academic year in pure Mathematics P1 and Statistics S1<br>**Resources needed:**<br>9709_12_Jun20.dvi<br><br>9709_52_June20.dvi<br>**Homework/Assignments:**<br>9709_13_Jun20.dvi<br><br>9709_53_June20.dvi |

| ADVANCED ARABIC | GENERAL ARABIC |
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| **Topics:**<br>**نص معلوماتي - نحيا بلا بلاستيك**<br>**Learning Objectives:**<br>**أن يحدد الفكرة الرئيسة والفكر الفرعية في النص**<br>**أن يحلل المعلومات الصريحة والضمنية في النص**<br>**أن يفسر كلمات النص الأدي مستخدما المعجم الورقي والرقمي**<br>**Resources needed:**<br>**الكتاب المدرسي - العرض التقديمي - أنشطة تعليمية**<br>**Homework/Assignments:**<br><br>حل أسئلة الكتاب المدرسي - كتابة موضوع تعبير | **Topics:**<br>**مشروب الشاي**<br>**Learning Objectives:**<br>**أن يحدد الفكرة الرئيسية والفكرة الفرعية للدرس**<br>**أن يستخرج الكلمات الجديدة ويوظفها في جمل من إنشائه**<br>**أن يتعرف تاريخ مشروب الشاي**<br>**أن يقارن بين تأثير شرب الشاي وتأثير شرب القهوة على الجسم**<br>**Resources needed:**<br>**الكتاب - العرض - بعض الوسائل التعليمية**<br><br>**Homework/Assignments:**<br>**اكتب فقرة عن مشروبك المفضل وتأثيره على الجسم** |
| **PHYSICS** | **BIOLOGY** |
| **Topics: Electricity**<br><br>**Learning Objectives:**<br>recall Kirchhoff's first law and understand that it is a consequence of conservation of charge<br>2 recall Kirchhoff's second law and understand that it is a consequence of conservation of energy<br>3 derive, using Kirchhoff's laws, a formula for the combined resistance of two or more resistors in series<br>4 use the formula for the combined resistance of two or more resistors in series<br>5 derive, using Kirchhoff's laws, a formula for the combined resistance of two or more resistors in parallel<br>6 use the formula for the combined resistance of two or more resistors in parallel<br>7 use Kirchhoff's laws to solve simple circuit problems<br><br>**Resources needed:** | **Topics:** 9&10<br>Gas Exchange & Infectious diseases<br><br>**Learning Objectives:**<br>describe the functions in the gas exchange system of cartilage, smooth muscle, elastic fibres and squamous epithelium<br>describe gas exchange between air in the alveoli and blood in the capillaries<br>explain how cholera, malaria, TB and HIV are transmitted<br><br>**Resources needed:**<br>Text book ,past papers to solve<br><br>**Homework/Assignments:**<br>Research on the consequences of antibiotic resistance and the steps that can be taken to reduce its impact. |

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| Copy book, simulation, pictures, topical question<br><br>**Homework/Assignments:**<br>Past papers [2016-2022] | |
| **CHEMISTRY** | **ACCOUNTING** |
| **Topics: Carboxylic Acids**<br><br>**Learning Objectives:**<br>• Describe the structure and general formula of esters.<br>• Explain the esterification reaction between carboxylic acids and alcohols.<br>• Understand the physical properties of esters (e.g., boiling points, solubility, and smell).<br>• Describe the hydrolysis of esters under acidic and alkaline conditions.<br>• Identify esters from structural formulas and IUPAC names.<br>• Explain the uses of esters in industry and daily life (e.g., perfumes, solvents, and food flavorings).<br>**Resources needed:**<br>• AS Level Chemistry textbook (Cambridge International 9701)<br>• Molecular model kits (optional, for visualizing ester structures)<br>• Whiteboard and markers<br>• PowerPoint slides (if available)<br>• Videos or animations explaining esterification and hydrolysis<br><br>**Homework/Assignments:**<br>Research and prepare a short report on the applications of esters in the pharmaceutical or fragrance industry. | **Topics:**<br>Marginal Costing<br>**Learning Objectives:**<br>To apply marginal costing method in decision making –closure of a unit /make or buy / acceptance of an order<br>**Resources needed:**<br>Text book<br>Case studies<br>Formats<br><br>**Homework/Assignments:**<br>Topical questions |

| ISLAMIC ARABIC | ISLAMIC EDUCATION |
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| **Topics:**<br>**وصايات وتوجيهات أخلاقية**<br>**Learning Objectives:**<br>**أن يستنتج مجالات الإقتداء بالرسول**<br>**أن يوضح دلالة الآيات الكريمة***<br>**أن يحرص على القيم التي تضمنتها الآيات الكريمة***<br><br>**Resources needed:**<br>**الكتاب المدرسي**<br>**العرض التقديمي**<br>**الشبكة العنكبوتية**<br>**السبورة الذكية**<br>**Homework/Assignments:**<br>**حفظ الآيات الكريمة**<br>**حل أنشطة الكتاب المدرسي**<br>**مراجعة العرض التقديمي للدرس** | **Topics: Ethical Guidelines and Instructions**<br><br>**Learning Objectives:**<br>• Students should recite the noble verses with proper Tajweed and accuracy.<br>• Students should interpret the meanings of Quranic vocabulary.<br>• Students should analyze some of the implications of the noble verses.<br><br>**Resources Needed:**<br>• Textbook<br>• Presentation<br>• Internet<br>• Smartboard<br><br>***Homework/Assignments:***<br>• Memorize the noble verses.<br>• Solve the textbook activities.<br>• Review the lesson presentation. |
| **ECONOMICS** | **BUSINESS** |
| **Topics:**<br>The government in the micro economy<br>National income<br>**Learning Objectives:**<br>To revise the concepts maximum and minimum price<br>To discuss the reasons for income inequality<br>To revise the government provision of goods and services | **Topics:**<br>Budgets<br>**Learning Objectives:**<br>To:<br>• analyze the benefits of setting budgets<br>• examine the importance of types of budgeting: incremental, zero and flexible<br>• analyze the potential limitations of budgeting<br>• use variance analysis to assess adverse and favorable variances from budgets |

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| To revise the concepts of market prices and basic prices<br>**Resources needed:**<br>Calculator<br>Past paper questions<br>Topical questions<br>e-book<br>**Homework/Assignments:**<br>Practice past papers<br>Chapters given for revision as per the schedule | **Resources needed:**<br>E book, Topial questions<br>**Homework/Assignments:**<br>Practice past papers |