

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM

LEARNING TRAILS

AY 2023-24: Term 2\_Week 7 (12<sup>th</sup> to 16<sup>th</sup> February 2024)

GRADE 12

MATHEMATICS	IT
<p><b>Topics:</b> Sampling &amp; Estimation.</p> <p><b>Learning Objectives:</b> To be able to find the Mean and Variance for the Unbiased estimator. To be able to find the confidence interval for the given data. To be able to find the confidence interval for proportion.</p> <p><b>Resources needed:</b> Sample questions</p> <p><b>Homework/Assignments:</b> Topical past paper questions.</p>	<p><b>Topics:</b> Project management (continued): Tools and techniques for project management tasks.</p> <p><b>Learning Objectives:</b> Calculate critical path and determine the longest path of dependent activities. Use of critical path analysis for, e.g. workflow control such as authorizing work, costings, allocating resources. Create PERT charts using and interpreting PERT charts for the analysis and management of projects. Describe components such as activities/tasks/work breakdown structures (WBS), timings, float, end points, milestones, dependencies, deliverables</p> <p><b>Resources needed:</b> Text book, task sheets, past paper questions</p> <p><b>Homework/Assignments:</b> Solve past paper questions.</p>
ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> نثر الجو على الأرض برد</p> <p><b>Learning Objectives:</b> أن يتتبع المتعلم تقنية الوصف من خلال استخدام الكاتب للتقنيات البلاغية أن يبين المتعلم المعنى الإجمالي للنصوص الشعرية موضحاً الفكر بعضها ببعض أن يميز المتعلم اللغة الانفعالية في بعض النصوص مبيناً الإيقاع الداخلي والخارجي فيها</p> <p><b>Resources needed:</b> الكتاب المدرسي- العرض التقديمي - منصة ألف</p> <p><b>Homework/Assignments:</b> حل التمرينات ص53-56</p>	<p><b>Topics:</b> عالم التقنيات</p> <p><b>Learning Objectives:</b> أن يتعرف المتعلم على المفردات الجديدة أن يستنتج المتعلم أهمية التقنيات الحديثة أن يتحدث المتعلم عن دور التقنيات الحديثة في التعليم</p> <p><b>Resources needed:</b> كتاب الطالب - الدفتر - العرض التقديمي</p> <p><b>Homework/Assignments:</b> يكتب فقرة عن أهمية التقنيات الحديثة</p>

PHYSICS	BIOLOGY
<p><b>Topics:</b> Medical Physics, Analysis and evaluation</p> <p><b>Learning Objectives:</b> Should be able to: Describe production and uses of Ultrasound, x ray Explain PET scan FIND uncertainties and draw best and worst acceptable line</p> <p><b>Resources needed:</b> Smart board, paper52 -2019</p> <p><b>Homework/Assignments:</b> <i>Topical paper – Nuclear physics</i></p>	<p><b>Topics:</b> Classification, biodiversity and Conservation</p> <p><b>Learning Objectives: Should be able to:</b></p> <ul style="list-style-type: none"> <li>• Explain how speciation may occur (allopatric speciation and sympatric speciation)</li> <li>• Describe the classification of organisms into three domains: Archaea, Bacteria and Eukarya.</li> <li>• Describe the classification of organisms in the Eukarya domain into the taxonomic hierarchy of kingdom, phylum, class, order, family, genus and species.</li> <li>• Outline the characteristic features of the kingdoms Protoctista, Fungi, Plantae and Animalia.</li> <li>• Outline how viruses are classified, limited to the type of nucleic acid (RNA or DNA) and whether this is single stranded or double stranded</li> </ul> <p><b>Resources needed:</b> Activity sheet, topical questions, text book, smartboard</p> <p><b>Homework/Assignments:</b> Solve topical activity sheet</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p><b>Topics:</b> الزواج طريق الاستعفاف سورة النور</p> <p><b>Learning Objectives:</b> أن يتلو الآيات تلاوة مجودة ويعرف معانيها. أن يبين دلالات الآيات الكريمة أن يستنتج تدابير مكافحة الزنا</p> <p><b>Resources needed:</b></p> <ul style="list-style-type: none"> <li>• الكتاب المدرسي</li> <li>• البوربوينت</li> <li>• منصة ألف</li> <li>• أنشطة صفية</li> </ul> <p><b>Homework/Assignments:</b></p> <ul style="list-style-type: none"> <li>• حل أنشطة الطالب بالكتاب المدرسي</li> <li>• حل منصة ألف</li> <li>• مراجعة البوربوينت للدرس</li> </ul>	<p><b>Topics:</b> Marriage is a Path to Chastity: Surah An-Noor 32-34)</p> <p><b>Learning Objectives:</b> Explain the meaning of the Quranic ayah Discuss the reason of revelation of the Quranic ayah.</p> <p><b>Resources needed:</b> Board, projector, marker, textbook</p> <p><b>Homework/Assignments:</b> Solve students' activity in textbook</p>

CHEMISTRY	ACCOUNTING
<p><b>Topics:</b> 34.2 Phenylamine and azo compounds</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"> <li>describe the preparation of phenylamine via the nitration of benzene to form nitrobenzene followed by reduction with hot Sn/concentrated HCl, followed by NaOH(aq)</li> <li>describe: the reaction of phenylamine with Br<sub>2</sub>(aq) at room temperature and the reaction of phenylamine with HNO<sub>2</sub> or NaNO<sub>2</sub> and dilute acid below 10 °C to produce the diazonium salt; further warming of the diazonium salt with H<sub>2</sub>O to give phenol, describe and explain the relative basicities of aqueous ammonia, ethylamine and phenylamine</li> </ul> <p><b>Resources needed:</b> Smart boards, white board, textbook</p> <p><b>Homework/Assignments:</b></p>	<p><b>Topics:</b> Standard Costing, Computerized Accounting System</p> <p><b>Learning Objectives:</b> To calculate fixed overhead variances To examine the advantages and disadvantages of having a computerized accounting system</p> <p><b>Resources needed:</b> Text book Task Sheets</p> <p><b>Homework/Assignments:</b> Topical questions</p>
BUSINESS	ECONOMICS
<p><b>Topics:</b> Analysis of financial statements</p> <p><b>Learning Objectives:</b> To calculate various financial statement's ratios. To interpret the performance of business organization based on the result of ratios</p> <p><b>Resources needed:</b> Text book Case studies Data response questions.</p> <p><b>Homework/Assignments:</b> Solving end of chapter questions.</p>	<p><b>Topics:</b> The Balance of Payment and Exchange Rate</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"> <li>To analyze the components of balance of payment on the current, financial and capital account.</li> <li>To analyze the effects of macroeconomic policies on the balance of payment</li> <li>To distinguish between expenditure switching and expenditure reducing policies</li> </ul> <p><b>Resources needed:</b> Economics by Peter Smith</p> <p><b>Homework/Assignments:</b> Solve End of the chapter questions and pen down in the Manuscript book</p>