

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM

LEARNING TRAILS

AY 2023-24: Term 2\_Week 6 (5<sup>th</sup> to 9<sup>th</sup> February 2024)

GRADE 12

MATHEMATICS	IT
<p><b>Topics: Vectors</b></p> <p><b>Learning Objectives:</b> To be able to find the vector equation of a line. To be able to find the perpendicular distance from the given point to the given line. To be able to find the angle between two lines.</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: Project initiation. Project planning. Project execution and monitoring. Programming with Javascript.</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"> <li>identifying objectives, scoping project, stakeholders, resources required and high-level schedules.</li> <li>Describe detailed planning of resources and scheduling of tasks Including: implementing the plan; monitoring progress against time, cost and quality, reporting to stakeholders.</li> <li>Describe each stage that has a phase review and why the reviews are conducted.</li> <li>Write programming code in javascript to implement loop control structure.</li> </ul> <p><b>Resources needed:</b> Video, Tassk sheets, Computer system</p> <p><b>Homework/Assignments:</b> Practice with past paper questions.</p>
ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> (التطبيقات النحوية) الفاعل نائب الفاعل المفعول به</p> <p><b>Learning Objectives:</b> أن يحدد المتعلم أركان الجملة الفعلية أن يعرب المتعلم الجمل إعرابا صحيحا</p> <p><b>Resources needed:</b> كتاب التطبيقات النحوية - الدفتر المدرسي- العرض التقديمي - منصة ألف</p>	<p><b>Topics:</b> عالم التقنيات</p> <p><b>Learning Objectives:</b> أن يتعرف على المفردات الجديدة أن يستنتج أهمية التقنيات الحديثة أن يعدد فوائد وأضرار التكنولوجيا الحديثة على الإنسان</p> <p><b>Resources needed:</b> بوربوينت - الكتاب المدرسي - منصة ألف</p> <p><b>Homework/Assignments:</b> حل أسئلة الكتاب - كتابة فقرة عن أهمية التكنولوجيا</p>

<b>Homework/Assignments:</b> حل تمرينات الكتاب	
<b>PHYSICS</b>	<b>BIOLOGY</b>
<p><b>Topics:</b> Nuclear Physics</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"> <li>• Should be able to</li> <li>• Define decay constant and half-life.</li> <li>• Explain exponential decay graph along with the equation</li> <li>• Relate half-life and decay constant</li> <li>• Solve numerical.</li> </ul> <p><b>Resources needed:</b> Copy book, calculator smart board, internet access</p> <p><b>Homework/Assignments:</b> Topical Past papers</p>	<p><b>Topics:</b> Genetic Engineering</p> <p><b>Learning Objectives:</b> Students should be able to:- Explain how gene expression may be confirmed by using marker genes</p> <ul style="list-style-type: none"> <li>• Explain that gene editing is a form of genetic engineering</li> <li>• outline how microarrays are used in the analysis of genomes</li> <li>• Explain the advantages of using recombinant human proteins to treat disease</li> <li>• outline the advantages of genetic screening</li> </ul> <p><b>Resources needed:</b> Text book,calculator, smartboard,</p> <p><b>Homework/Assignments:</b>Activity sheet and Topical paper</p>
<b>ISLAMIC ARABIC</b>	<b>ISLAMIC EDUCATION</b>
<p><b>Topics:</b> المنهج النبوي في الرعاية الصحية</p> <p><b>Learning Objectives:</b> <u>أن يوضح مفهوم الصّحية ورعايتها</u> <u>أن يبين أهمية الصّحة في حياة الفرد والمجتمع</u> <u>أن يستنتج مقومات الصّحة في السنة النبوية</u></p> <p><b>Resources needed:</b> <u>الكتاب المدرسي</u> <u>بوربوينت</u> <u>أنشطة تعليمية</u> <u>منصة ألف</u></p> <p><b>Homework/Assignments:</b> حل أنشطة الطالب حل أسئلة منصة ألف</p>	<p><b>Topics:</b> The Prophetic Methodology in Health Care</p> <p><b>Learning Objectives:</b> <u>Appraise the concept of health and health care methods.</u> <u>Infer the causes behind the spread of diseases despite the progress achieved in medical science.</u></p> <p><b>Resources needed:</b> <u>Board, projector, marker, textbook</u></p> <p><b>Homework/Assignments:</b> Solve students' activities in the textbook</p>
<b>CHEMISTRY</b>	<b>ACCOUNTING</b>
<p><b>Topics: 33</b> Carboxylic acids and derivatives</p> <p><b>Learning Objectives:</b></p>	<p><b>Topics:</b> Partnership Changes</p> <p><b>Learning Objectives:</b> To account for partnership changes of admission and retirement</p>

1. recall the reaction by which benzoic acid can be produced:
2. describe the reaction of carboxylic acids with  $PCl_3$  and heat,  $PCl_5$ , or  $SOCl_2$  to form acyl chlorides
3. recognise that some carboxylic acids can be further oxidised
4. describe and explain the relative acidities of carboxylic acids, phenols and alcohols
5. describe and explain the relative acidities of chlorine-substituted carboxylic acids

**Resources needed:**

Copy book, calculator smart board, internet access

**Homework/Assignments:**

**Resources needed:**

Text book

Task Sheets

**Homework/Assignments:**

Topical questions

**BUSINESS**

**Topics:**

**Analysis of published accounts**

**Learning Objectives:**

To analyze the published accounts by using ratio analysis

**Resources needed:**

Textbook

Case studies.

**Homework/Assignments:**

Practice end of chapter questions

**ECONOMICS**

**Topics:**

Macroeconomic policies

**Learning Objectives:**

To analyze the effectiveness of macroeconomic policy options, including fiscal, monetary, supply-side, exchange rate, and international trade policy.

To evaluate the conflicts among the macro policy outcomes.

To analyze the government failure in macroeconomic policies

**Resources needed:**

Economics by Peter Smith

**Homework/Assignments:**

Pen down the solutions to the questions given at the end of the chapter in the notebook.