

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM

LEARNING TRAILS

AY 2023-24: Term 1\_Week 11 (6<sup>th</sup> to 10<sup>th</sup> November 2023)

GRADE 12

MATHEMATICS	IT
<p><b><u>Topics:</u></b> Poisson Distribution</p> <p><b><u>Learning Objectives:</u></b> To be able to understand the situation Poisson distribution applies. To be able to find the probability of the time, rate, duration situation.</p> <p><b><u>Resources needed:</u></b> Sample questions</p> <p><b><u>Homework/Assignments:</u></b> Topical questions past papers.</p>	<p><b><u>Topics:</u></b> Prototyping Methods of software development</p> <p><b><u>Learning Objectives:</u></b> Explain the different types of prototyping and their purposes. Identify the advantages and disadvantages of each type of prototyping. Comprehend the stages and processes involved in each method of prototyping. Evaluate the advantages and disadvantages of each method in the context of system development. Apply appropriate prototyping techniques to real-world system development scenarios.</p> <p><b><u>Resources needed:</u></b> <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> <a href="http://searchmanufacturingerp.techtarget.com/definition/prototype">http://searchmanufacturingerp.techtarget.com/definition/prototype</a> <a href="http://searchcio.techtarget.com/definition/Prototyping-Model">http://searchcio.techtarget.com/definition/Prototyping-Model</a></p> <p><b><u>Homework/Assignments:</u></b> Solve past paper questions</p>

ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> ( أفعال المقاربة والرجاء والشروع ) كاد وأخواتها</p> <p><b>Learning Objectives:</b> أن يعدد المتعلم كاد وأخواتها أن يحدد المتعلم عناصر الجملة بعد دخول كاد أو إحدى أخواتها على الجملة أن يعرب المتعلم الجمل إعرابا صحيحا أن يوظف المتعلم كاد وأخواتها في فقرة من إنشائه</p> <p><b>Resources needed:</b> الكتاب المدرسي - الدفتر المدرسي - العرض التقديمي - مقطع فيديو</p> <p><b>Homework/Assignments:</b> حل التمرينات ص 59-61 + تمرينات منصة ألف</p>	<p><b>Topics:</b> ( نص معلوماتي ) طائر النعام</p> <p><b>Learning Objectives:</b> أن يقرأ الطالب درس قراءة جهرية صحيحة أن يتعرف الطالب على مفردات الدرس أن يحدد الطالب الفكرة الرئيسية والفكر الفرعية للدرس أن يعدد الطالب مواصفات طائر النعام</p> <p><b>Resources needed:</b> كتاب الطالب - الدفتر - عرض فيديو عن النعام - العرض التقديمي</p> <p><b>Homework/Assignments:</b> حل أسئلة الكتاب المدرسي- يكتب فقرة عن الحيوانات</p>
PHYSICS	BIOLOGY
<p><b>Topics:</b> Electric field and Capacitors</p> <p><b>Learning Objectives:</b> Should be able to: Define electric potential and apply equations of potential and potential energy equations to solve problems. Explain action of a parallel plate capacitor. Define capacitance and use defining equations to solve problems.</p> <p><b>Resources needed:</b> Copy book, Calculator, stationeries ....</p> <p><b>Homework/Assignments:</b> Topical past paper – SHM</p>	<p><b>Topics:</b> Control and coordination in Plants</p> <p><b>Learning Objectives:</b> 1)Describe the rapid response of the Venus fly trap to stimulation of hairs on the lobes of modified leaves and explain how the closure of the trap is achieved 2) explain the role of auxin in elongation growth by stimulating proton pumping to acidify cell walls 3) describe the role of gibberellin in the germination of barley (see 16.3.4)</p> <p><b>Resources needed</b> Copy book, Calculator, text book ,Tab, Stationeries</p> <p><b>Homework/Assignments:</b> Topical questions and HOT questions as activity sheet</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p><b>Topics:</b>26-11-26 (سورة النور) حديث الإفك</p> <p><b>Learning Objectives:</b> أن يتلو الطالب الآيات الكريمة تلاوة صحيحة مجودة</p>	<p><b>Topics:</b> Slander of Ayesha R.A (IFK)</p> <p><b>Learning Objectives:</b></p>

أن يفسر الآيات تفسيراً إجمالياً مع معانيها مبيناً آداب الإسلام في مواجهة الشائعات وآثارها السلبية على الفرد والمجتمع أن يستنتج فضل أم المؤمنين عائشة رضي الله عنها أن يحرص على القيم التي تضمنته الآيات

**Resources needed:**

الكتاب المدرسي  
بوربوينت  
أنشطة تعليمية  
منصة ألف

**Homework/Assignments:**

- حل أنشطة الطالب
- حل أسئلة منصة ألف

Explain the verses of Quran and reason of revelation  
Discuss story of IFK of Hazrat Ayesha R.A

**Resources needed:**

Islamic history textbooks and references.  
Online resources

**Homework/Assignments:**

SOLVE STUDENTS' ACTIVITIES IN TEXTBOOK  
REVISE PPT

**CHEMISTRY**

**Topics:**

T26 Reaction kinetics

**Learning Objectives:**

1. explain and use the terms rate equation, order of reaction, overall order of reaction, rate constant, half-life, rate-determining step and intermediate
2. understand and use rate equations of the form  $rate = k [A]^m [B]^n$  (for which  $m$  and  $n$  are 0, 1 or 2)

**Resources needed:**

White boards, smart board, textbooks, past papers.

**Homework/Assignments:**

Textbook and past papers questions.

**ACCOUNTING**

**Topics:**

Cash flow statement

**Learning Objectives:**

- To calculate cash flow from operating, investing and financing activities  
Apply IAS 7 in framing a cash flow statement

**Resources needed:**

Accounting AS and A level by Harold Randall and David Hopkins  
Topical Questions  
Cash flow Statement format –IAS 7  
<https://www.iasplus.com/en/standards/ias/ias7>

**Homework/Assignments:**

Topical questions

**BUSINESS**

**Topics:**

- 1.5 Stakeholders in a business
- 1.5.2 The relative importance and influence of stakeholders on business activities

**Learning Objectives:**

To analyze how and why a business needs to be

**ECONOMICS**

**Topics:**

The growth and objectives of firms

**Learning Objectives:**

- To distinguish between mergers and take overs  
To understand the meaning of conglomerate mergers

accountable to its stakeholders

- To analyze how conflict might arise from stakeholders having different aims and objectives
- To analyze how changing business objectives might affect its stakeholders
- To evaluate the impact of business decisions on stakeholders and their reactions

**Resources needed:**

**ISBN:9781108921220**

[www.tutor2u.net/business/gcse/organisation\\_stakeholders\\_ethics.html](http://www.tutor2u.net/business/gcse/organisation_stakeholders_ethics.html)

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**Homework/Assignments:**

Solving End of Unit questions and record answers in note book

To analyze the operations of cartels

To understand the principal agent problems

**Resources needed:**

Economics second Edition by Peter Smith  
CIA past papers

**Homework/Assignments:**

Find solutions to the questions that are asked at the end of the unit and pen them down in notebook