# AL AIN JUNIORS SCHOOL- BRITISH SYSTEM LEARNING TRAILS

AY 2023-24: Term 2\_Week 9 (26<sup>th</sup> to 1<sup>st</sup> March 2024)
GRADE 11

MATHEMATICS	IT
Topics:	Topics:
THE NORMAL DISTRIBUTION $X \sim N(\mu, \sigma^2)$	Modelling:
	What-if analysis
Learning Objectives:	The characteristics of modelling software.
<ul> <li>recall conditions under which the normal</li> </ul>	The need for computer models.
distribution can be used as an approximation to the	The effectiveness of spreadsheet models.
binomial distribution and use this approximation	The use of a model to create and run simulations.
with a continuity correction in solving problems	
with n sufficiently large to ensure that both np > 5	Learning Objectives:
and ng > 5.	Use what-if analysis
·	Create and apply a test plan to test a spreadsheet
Resources needed:	model Including for: financial forecasting,
Textbook	population growth, climate change, weather
CAIE Mathematics: Topic-Wise Study Guides,	systems, queue management, traffic flow,
Questions, and Resources   Search Results	construction.
(cambridgepapers.net)	Analyze the use of modelling in natural disaster
	planning, pilot training, learning to drive a car,
Homework/Assignments:	nuclear science research.
CAIE Mathematics: Topic-Wise Study Guides,	
Questions, and Resources   Search Results	Resources needed:
(cambridgepapers.net)	Textbook, activity sheets, computer system
<u>(cambriagepapers.net)</u>	
	Homework/Assignments:
	Solve past paper questions.
ADVANCED ARABIC	GENERAL ARABIC
Topics:	Topics:
البدل	المكتبة الإلكترونية
Learning Objectives:	
أن يتعرف المتعلم البدل	Learning Objectives:
أن يعرب البدل إعرابا صحيحا	أن يتعرف على المكتبة الإلكترونية
أن يوظف البدل في مواقف حياتية	أن يذكر كيف بدأت المكتبة الإلكترونية
	أن يبحث عن طريقة التعامل والعمل في المكتبة الإلكترونية
Resources needed:	
الكتاب المدرسي - منصة ألف - اختبار الكتروني	Resources needed: العرض - الكتاب – الانترنت
Homowork/Assignments:	العرص - الحناب – الإندريت
Homework/Assignments: حل أسئلة منصة ألف	Homeowerk / Assignment and a
حل استنه منصه الع	Homework/Assignments: اكتب فقر ة عن المكتبة الإلكتر و نية
	المنب تعره عن المدنبة الم سعروبية

PHYSICS	BIOLOGY
Topics:	Topics: Immunity
Electricity- Revision	
	Learning Objectives:
<u>Learning Objectives:</u>	describe the mode of action of phagocytes
Full chapter Success criteria	(macrophages and neutrophils)
	explain what is meant by an antigen and state the
Resources needed:	difference between self-antigens and non-self-
Text Book, Task sheet, Copy Book	antigens
Homework/Assignments:	Resources needed:
[2016-2020] both MCQ and SQ	http://highered.mheducation.com/sites/0072507
	470/student view0/chapter3/animation phagoc
	ytosis.html
	Homework/Assignments:
	Research on autoimmune disorders such as
	myasthenia gravis, psoriasis and multiple sclerosis.
ISLAMIC ARABIC	ISLAMIC EDUCATION
Topics:	Topics:
المتودر والآحاد	Hadith Mutawatir and ahaad
<u></u>	Learning Objectives:
Learning Objectives:	Explain the meaning of Hadith
أن يفرق بين الحيث المتواتر والحديث الآحاد	Discuss different types of Hadith.
يستنبط شروط الحديث المتواتر -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
يميز بين أنواع الحديث الآحاد -	Resources needed:
	Board, projector, marker, textbook
Resources needed:	
الكتاب المدرسي	Homework/Assignments:
بوريوينت	Solve students' activity in textbook
أنشطة تعليمية	,
منصة ألف	
Homework/Assignments:	
حل أنشطة الطالب •	
· حل أسئلة منصة ألف •	
CHEMISTRY	ACCOUNTING
<u>Topics:</u> Casrboxylic Acids	Topics:
	CVP Chart a and Revision
<u>Learning Objectives:</u>	
describe:	Learning Objectives:
(a) the redox reaction with reactive metals to	Analyse the usefulness of cost–volume–profit
produce a salt and H2(g)	data as a support for management decision-making
	how to apply costing concepts to make business

(b) the neutralization reaction with alkalis to produce a salt and H2O(I)

(c) the acid-base reaction with carbonates to produce a salt and H2O(I) and CO2(g)

(d) esterification with alcohols with concentrated H2SO4 as catalyst

(e) reduction by LiAlH4 to form a primary alcohol

#### Resources needed:

www.docbrown.info/page06/OrgMechs2.htm www.youtube.com/watch?v=Bg3c5c9b1BQ&t=117s [mechanisms compared in detail] www.rsc.org/education/teachers/resources/aflchem/resources/55/index.htm

# **Homework/Assignments:**

**Textual and Topical Questions** 

decisions and recommendations using supporting data

## **Resources needed:**

Topical questions Formats

#### **Homework/Assignments:**

**Topical questions** 

#### **BUSINESS**

## **Topics:**

Unit 1 - Revision - Understanding Business activity

## **Learning Objectives:**

To revise and practice students for upcoming CIE exam

# **Resources needed:**

ISBN: 978-1108921220

https://schoolsupporthub.cambridgeinternational.org/past-exam-papers/?keywords=9609

#### Homework/Assignments:

Solve the data response questions