# AL AIN JUNIORS SCHOOL- BRITISH SYSTEM LEARNING TRAILS

AY 2023-24: Term 1\_Week 12 (13<sup>th</sup> to 17<sup>th</sup> November 2023)

GRADE 12

MATHEMATICS	IT
Topics:	Topics:
Linear Combination of Random variables.	Communication technology:
	Networks:
Learning Objectives:	Types.
To be able to find the mean and variance of	Characteristics and uses of each type.
Random variables.	Advantages and disadvantages of each type.
To be able to find the probabilities using Normal	
distribution.	Learning Objectives:
	Define client-server and peer-to-peer
Resources needed:	networks and explain their basic structures.
Sample questions, Past paper questions.	Identify the roles and responsibilities of
	clients and servers in a client-server
Homework/Assignments:	network.
Past paper questions.	Describe the decentralized nature of peer-
	to-peer networks and their reliance on
	resource sharing among peers.
	Discuss the applications of peer-to-peer
	networks, including file sharing,
	collaborative computing, and decentralized
	communication.
	Evaluate the scalability and performance
	advantages of client-server networks in
	handling large-scale operations.
	Identify scenarios where peer-to-peer
	networks are more suitable, such as small-
	scale environments or ad hoc collaborations.
	Resources needed:
	Cambridge International AS and A level IT-
	course book.
	Source Book.
	Homework/Assignments:
	Solve past paper questions.

ADVANCED ARABIC	GENERAL ARABIC
Topics:	Topics:
البركة	نص معلوماتي طائر النعام
Learning Objectives:	Learning Objectives:
أن يبين المتعلم المعنى الإجمالي للنصوص الشعرية موضحا علاقة	أن يتعرف الطالب على المفردات الجديدة الواردة في النص
الفكر بعضها ببعض مفسرا مفرداتها من خلال السياق والقرائن	أن يقرأ الطالب النص قراءة جهرية صحيحة
باستخدام مصادر ورقية ورقمية متعددة مستنتجا الدلالات التعبيرية	أن يعدد الطالب مواصفات طائر النعام
	أن يحلل الطالب النص تحليلًا لغويًا صحيحًا
Resources needed:	
الكتاب المدرسي - العرض التقديمي - مقطع فيديو	Resources needed:
	كتاب الطالب - العرض التقديمي - فيديو عن النعام
Homework/Assignments:	
حل تمرينات الدرس - منصة ألف	Homework/Assignments:
	يجيب عن أسئلة النص في الكتاب- يكتب فقرة عن الطيور في
21112122	دولة الإمارات العربية المتحدة
PHYSICS	BIOLOGY
Topics:	Topics:
Capacitors, Magnetic field	Inheritance
Leaving Objectives	Learning Objectives
Learning Objectives:	Learning Objectives:
Describe how PD across a capacitor varies with	Describe the stages of Meiosis 1& 2 Draw and     Is a different atoms from the
time while discharging and explain time	label different stages from the
constant along with exponential equation.	photomicrographs
Explain force on a current carrying conductor	Explain the importance of reduction revision
in a magnetic field	Explain the factors that leads to genetic
	variation
Resources needed:	Explain structural genes, regulatory genes
Copy book, calculator, stationeries	
	Resources needed:
Homework/Assignments:	Copy book, calculator, text book, tab, Activity
Topical past paper - Electric field	sheet
	Homework/Assignments:
	Solve topical questions & activity sheet
ISLAMIC ARABIC	ISLAMIC EDUCATION
السنن الربانية Topics:	Topics: Divine Laws
Learning Objectives:	Learning Objectives:
أن يتعرف السنن الربانية وأقسامها	a. Understand the concept of Divine Laws in

أن يدلل على أهمية فهم السنن الربانية للفرد والمجتمع
أن يبين خصائص السنن الربانية
أن يحدد السنن الشرطية في القرآن الكريم والسنة
أن يحرص على الاستفادة من السنن الربانية في حياتي اليومية
Resources needed:
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الكتاب المدرسي بوربوينت أنشطة تعليمية

منصة ألف

# **Homework/Assignments:**

- حل أنشطة الطالب •
- حل أسئلة منصة ألف

- b. Identify and analyze the different types of Divine Laws.
- c. Apply the Divine Laws to real-life situations and make informed ethical decisions.

# **Resources needed:**

- a. Apps: Islamic Legal Studies apps, Quran apps, Hadith apps.
- b. Links: Online resources such as reputable Islamic websites, academic journals, and video lectures

# **Homework/Assignments:**

Solve students' activities in the textbook.

	Revise PPT
CHEMISTRY	ACCOUNTING
Topics:	Topics:
T 26 REACTION KINETICS	Limited Companies
<b>Learning Objectives:</b>	Learning Objectives:
Deducing rate equation and rate constant	To formulate Statement of changes in equity
Order of reaction determination from graphs	To formulate schedule of non-current assets
Resources needed:	Resources needed:

Smart board White board Textbook

Past papers

Homework/Assignments:

Past paper questions

AS and A level Accounting by David Hopkins and Harold Randall **Topical questions** Formats based on IAS

# Homework/Assignments:

**Topical questions** 

BUSINESS	ECONOMICS
Topics:	Topics:
Human resource management	Government policies to correct the market
7.1.1 The relationship between business objectives	failures
and organizational structure	
7.1.2 Types of structure: functional, hierarchical	<u>Learning Objectives:</u>
(flat and narrow), matrix	To analyze the role subsidy in correcting the

7.1.2 Types of structure: functional, hierarchical (flat and narrow), matrix

7.1.5 Centralization and decentralization

# **Learning Objectives:**

To analyze the relationship between delegation and accountability

To analyze the processes of accountability in a business

To analyze the impact of delegation on a business The relationship between span of control and levels of hierarchy

To analyze the difference between authority and responsibility

To analyse the conflicts between control and trust that might arise when delegating

To analyse the impact of centralization and decentralization on a business

#### **Resources needed:**

ISBN:9781108921220

www.tutor2u.net/business/people/org\_centralisa tion\_decentralisation.asp

www.youtube.com/watch?v=M1sV6YhxQD8

- video about centralization and decentralization

## **Homework/Assignments:**

Practice End of Unit 1 questions

market failure

To understand the tools of direct control in correcting the market failures

To understand the relationship between privatization and market failure

## **Resources needed:**

Economics by Petr Smith CIA past papers

## **Homework/Assignments:**

Find solutions to the End of the Chapter questions-Page Number: 335