AL AIN JUNIORS SCHOOL- BRITISH SYSTEM LEARNING TRAILS

AY 2023-24: Term 1_Week 14 (27th to 1st December 2023)

GRADE 11

MATHEMATICS	IT
Topics:	Topics:
Arithmetic and geometric progression	Normalisation to third normal form (3NF)
Discrete random variables (drvs)	
	Learning Objectives:
 Learning Objectives: recognise arithmetic and geometric progressions use the formulae for the nth term and for the sum of the first n terms to solve problems involving arithmetic or geometric progressions use the condition for the convergence of a geometric progression, and the formula for the sum to infinity of a convergent 	 Describe the process of normalization. Describe and analyze the characteristics of data in unnormalised form (UNF), first normal form (1NF), second normal form (2NF) and third normal form (3NF). Describe the advantages and disadvantages of normalisation. Normalise a database to first normal form (1NF), second normal form (2NF) and third normal form (2NF) and third normal form (3NF).
 draw up a probability distribution table relating to a given situation involving a discrete random variable X 	Resources needed: Text book, Past papers, Activity sheets Sample database to be normalised.
Resources needed:	
TEXTBOOK, PPTs, PAST PAPERS FROM	Homework/Assignments:
CALE Mathematics: Topic-Wise Study Guides,	Solve past paper questions.
Questions, and Resources Papers	
(campridgepapers.net)	
Homework/Assignments: CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Search Results (cambridgepapers.net) CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Search Results (cambridgepapers.net)	

ADVANCED ARABIC	GENERAL ARABIC
Topics:	Topics:
مراجعة	مراجعة
Learning Objectives;	
أن يحدد الفكرة الرئيسة والفكر الفرعية في قصيدة مالك	Learning Objectives;
بن الريب	أن يتعرف أنواع الهوايات
أن يستنتج الدلالات الإيحائية والمجازية في النص	أن يستنتج أهمية المعارض
أن يفسر معاني المفردات ويوظفها في جمل من إنشائه 🔹	أن يذكر أنواع الهجن
Resources needed:	
الكتاب المدر سي	Resources needed:
منصبة ألف	الكتاب المدرسي
العرض التقديمي •	العرض التقديمي
اختبار الكتروني •	الإنترنت
Homework/Assignments:	Homework/Assignments:
	حل أور أق العمل
حل أسئلة منصبة ألف	أختبار إلكتروني
حل اور اق العمل	
PHYSICS	BIOLOGY
<u>Topics.</u>	LINIT:5 The Mitotic cell cycle
1 Stross and strain	Quiling the mitotic cell cycle
1 understand that deformation is caused by tansile	Outline the mitotic cell cycle.
a compressive forces (forces and deformations will	of games from the ands of chromosomes during
be assumed to be in one dimension only)	DNA replication
2 understand and use the terms lead sutension	DNA replication.
2 understand and use the terms load, extension,	outline the role of stem cells in cell replacement
2 recell and use Hecke's law	and ussue repair by micosis.
A recall and use the formula for the coving constant	Nesources needed:
4 recail and use the formula for the spring constant $k = \Gamma / \kappa$	www.mmm.org/piointeractive/ana-packaging
K = F / X	www.dnaic.org/resources/3d/07-now-dna-is-
Posourcos poodod:	
https://phot.colorado.adu	
https://priet.colorado.edu	Homework (Assignments:
www.physicsclassroom.com	Skotch the different stages of the mitotic cell
www.physicsiab.co.uk	sketch the unrelent stages of the milduc cell
https://sciencing.com	cycle and identity the main stages of mitosis.
<u>nπps://spark.iop.org</u>	
www.stem.org.uk	To recover the control of the coll such that the
https://studynova.com/lecture/physics/	i o research the control of the cell cycle, including
	checknoint protein kinases and the process of

www.s-cool.co.uk/a-level/physics	phosphorylation.
Cambridge AS level Course Book.	
Homework/Assignments:	
Practice bookIt[2016-20 both MCQ and SQ	
ISLAMIC ARABIC	ISLAMIC EDUCATION
Topics:	Topics:
NUN ALL MULLER	Manners of Dialogue
مصادر التشريع الإسلامي	
Learning Objectives;	Learning Objectives;
· · · · · · · · · · · · · · · · · · ·	a. Understand the importance of respectful and
ان يبين المقصود بمصادر التشريع الإسلامي *	effective dialogue in Islam.
أن يذكر خصائص القرآن الكريم*	b. Identify and practice key manners of dialogue in
	Islamic teachings.
أن يوضح حجية السنة النبوية الشريفة *	
ان يستنتج أهميه الاجتهاد في أستتباط الاحجام السرعية *	Resources needed:
أن يحدد بعض مصادر التشريع الاجتهادية *	a. Books: Islamic etiquette books, such as "Islamic
	Manners" by Abdul Fattah Abu Ghudwah b Online
Resources needed:	resources: Islamic educational websites, such as
	Islamic Finder and Islami city, for additional reading
	materials and interactive content c Mobile anns:
	Islamic atiquetto apps, such as "Islamic Manpars &
الشطه تعليميه	Etiquettes" and "Islamic Manners for Children
منصة ألف	
	Homework/Assignments:
Homework/Assignments:	Solve students' activities in the textbook.
حار أنشطة الطالب	Revise PPT
حار أسئلة منصة ألف	
CHEMISTRY	ACCOUNTING
Topics: Equilibria	Topics:
	Costing –Materials and labour
Learning Objectives;	
• Explain the Dynamic nature for reversible	Learning Objectives;
reactions	Candidates analyse • accounting for material and
• Deduce expressions for equilibrium	labour costs • how to identify and calculate fixed
constants	costs, variable costs, semi-variable costs and
Calculate the values of Equilibrium	stepped costs • how to calculate the value of
constants.	closing inventory using the first in first out (FIFO)
	and weighted average cost (AVCO) methods

	(perpetual and periodic) • the principles of just in
Resources needed:	time (JIT) management of inventory
Microsoft Teams, AS Chemistry Collins Textbook.	
	Resources needed:
Homework/Assignments:	AS and A level text book by Harold Randall and
End of the chapter Questions	David Hopkins
Daily Questions from Microsoft Teams.	Formats
Topical Questions.	
	Homework/Assignments:
	Topical questions
BU	ISINESS
Topics:	
Theories of Motivation	
Learning Objectives;	
To analyze various theories of motivation.	
To apply these theories of motivation I business or	ganizations to improve the efficiency of core and
peripheral workers.	
Resources needed:	
Textbook	

Past papers

Homework/Assignments:

Practice End of Unit questions given in the textbook