## AL AIN JUNIORS SCHOOL- BRITISH SYSTEM LEARNING TRAILS

## AY 2023-24: Term 1\_Week 13 (20<sup>th</sup> to 24<sup>th</sup> November 2023)

GRADE 11

MATHEMATICS	IT
Topics: Series	Topics:
1. BINOMIAL EXPANSION	eSecurity:
2. ARITHEMETIC PROGRESSION	
<ul> <li>Learning Objectives;         <ul> <li>use the expansion of (a + b)<sup>n,</sup> where n is a positive integer</li> <li>recognise arithmetic progressions</li> <li>use the formulae for the nth term and for the sum of the first n terms to solve problems involving arithmetic progressions</li> </ul> </li> <li>Resources needed:         <ul> <li>Textbook, PPT, Past papers</li> <li>Homework/Assignments:</li> <li>CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources   Search Results</li> </ul> </li> </ul>	<ul> <li>Learning Objectives;</li> <li>Describe the concept of eSecurity and its significance in protecting personal data.</li> <li>Identify common types of malware and their impact on cybersecurity.</li> <li>Explain best practices for safeguarding personal data and preventing malware infections.</li> <li>Discuss the potential consequences of malware infections, including data loss, financial loss, and privacy breaches.</li> <li>Describe preventive measures for protecting personal data, such as using strong passwords, enabling two-factor</li> </ul>
(cambridgepapers.net)	authentication, and encrypting sensitive information.
CAIE Mathematics: Topic-Wise Study Guides,	information.
Questions, and Resources   Search Results	Resources needed:
(cambridgepapers.net) CAIE Mathematics: Topic-Wise Study Guides,	https://ec.europa.eu/info/law/law-topic/data-
Questions, and Resources   Search Results	protection/reform/what-personal-data_en
(cambridgepapers.net)	www.consumer.ftc.gov/articles/0272-how-keep-
CAIE Mathematics: Topic-Wise Study Guides,	your-personal-information-secure
Questions, and Resources   Search Results	www.webopedia.com/DidYouKnow/Internet/viru
(cambridgepapers.net)	<u>s.asp</u>
CAIE Mathematics: Topic-Wise Study Guides,	www.cisco.com/c/en/us/products/security/advan
Questions, and Resources   Search Results	ced-malware-protection/what-is-malware.html
(cambridgepapers.net)	
	Homework/Assignments:
	Solve past paper questions

ADVANCED ARABIC	GENERAL ARABIC
Topics:	Topics:
	مراجعة عل دروس الأختبار
مراجعة الامتحان النهاني	
Learning Objectives;	Learning Objectives;
، يحدد الفكرة الرئيسة والفكر الفرعية لقصيدة مالك بن •	
الريب	أن يتدرب على أنواع الجمل والضمائر و الأفعال
ن يحلل القصبة إلى عناصر ها الفنية (قصبة نظارة طبية	
أن يتعرف أوزان اسم الآلة •	Resources needed:
أن يميز بين الكناية والاستعارة والتشبيه •	الكتاب المدرسي
Resources needed:	العرض التقديمي
الكتاب المدرسي •	أختبار ألكتروني
أسئلة منصبة ألف	
اختبار الكتروني •	Homework/Assignments: حل اسئلة الكتاب
Homework/Assignments:	أوراق العمل
حل أسئلة منصبة ألف	
حل أوراق العمل	
PHYSICS	BIOLOGY
Topics:	Topics:
Work power and Energy	Unit: 5 The Mitotic cell cycle
Learning Objectives;	Learning Objectives;
2 Gravitational Potential Energy and Kinetic Energ	gy outline the mitotic cell cycle, including:
1 derive, using W = Fs, the formula $\Delta$ EP = mg $\Delta$ h fo	• interphase (growth in G1 and G2 phases and DNA
gravitational potential energy changes in a unifor	m replication in S phase)
gravitational field	• mitosis
2 recall and use the formula $\Delta EP = mg\Delta h$ for	Cytokinesis
gravitational potential energy changes in a unifor	m
gravitational field	Resources needed:
3 derive, using the equations of motion, the	www.hhmi.org/biointeractive/dna-packaging
formula for kinetic energy EK = 1/2mv2	
4 recall and use EK = 1/2mv2	www.dnalc.org/resources/3d/07-how-dna-is-
	packaged-basic.html
Resources needed:	www.cellsalive.com/cell_cycle_js.htm
	and
https://phet.colorado.edu	
	www.biology.arizona.edu/cell_bio/tutorials/cell_
www.physicsclassroom.com	www.biology.arizona.edu/cell_bio/tutorials/cell_ cycle/mitosis_movie.html
https://phet.colorado.edu www.physicsclassroom.com www.physicslab.co.uk https://sciencing.com	

https://spark.iop.org	Research the control of the cell cycle, including
www.stem.org.uk	checkpoint protein kinases and the process of
https://studynova.com/lecture/physics/	phosphorylation.
Topic wise past paper questions	
www.physicsmathtutor.com	
www.s-cool.co.uk/a-level/physic	
Homework/Assignments:	
Practice Booklet 2016-2020 MCQ and SQ	
	ISLAMIC EDUCATION
Topics: مصادر التشريع الإسلامي	Topics:
مصادر الشكريخ الإسارمي	Manners of Dialogue
Learning Objectives;	Learning Objectives;
أن يبين المقصود بمصادر التشريع الإسلامي *	a. Understand the importance of respectful and
أن يذكر خصائص القرآن الكريم*	effective dialogue in Islam.
أن يوضح حجية السنة النبوية الشريفه *	b. Identify and practice key manners of dialogue in
أن يستنتج أهمية الاجتهاد في استنباط الأحكام الشر عية *	Islamic teachings.
أن يحدد بعض مصادر التشريع الاجتهادية *	
Resources needed:	Resources needed:
	a. Books: Islamic etiquette books, such as "Islamic
الكتاب المدرسي	Manners" by Abdul Fattah Abu Ghudwah. b. Online
بوربوينت أنشطة تعليمية	resources: Islamic educational websites, such as
	Islamic Finder and Islami city, for additional reading
منصة ألف	materials and interactive content. c. Mobile apps:
	Islamic etiquette apps, such as "Islamic Manners &
Homework/Assignments:	Etiquettes" and "Islamic Manners for Children.
حل أنشطة الطالب •	
حل أنشطة الطالب • حل أسئلة منصة ألف •	Homework/Assignments:
	Solve students' activities in the textbook.
	Revise PPT
CHEMISTRY	ACCOUNTING
	Topics:
Redox Reactions	Incomplete Records
Learning Objectives;	Learning Objectives;
Learning Objectives; Calculate oxidation numbers of elements in	Learning Objectives; To formulate financial statements from incomplete

chemical Equations	Resources needed:
	Cambridge AS and A level Accounting
Resources needed:	Formats
Cambridge AS and A level Chemistry Course book.	Topical MCQ sheet
Homework/Assignments:	Homework/Assignments:
Topical Questions from Papa Cambridge.	Topical questions
Textual End of the Chapter Questions.	
BUS	INESS
Topics:	
1.5 Stakeholders in a business	
1.5.2 The relative importance and influence of stake	eholders on business activities
Learning Objectives;	
To analyze how and why a business needs to be accord	
To analyze how conflict might arise from stakeholde	ers having different aims and objectives
To analyze how conflict might arise from stakeholde To analyze how changing business objectives might	
, .	affect its stakeholders
To analyze how changing business objectives might To evaluate the impact of business decisions on sta	affect its stakeholders
To analyze how changing business objectives might a To evaluate the impact of business decisions on state Resources needed:	affect its stakeholders
To analyze how changing business objectives might a To evaluate the impact of business decisions on stal <u>Resources needed:</u> SBN:9781108921220	affect its stakeholders keholders and their reactions
To analyze how changing business objectives might a To evaluate the impact of business decisions on state Resources needed:	affect its stakeholders keholders and their reactions <u>keholders_ethics.html</u>

Solve the past papers of 2020-2022- May June / 12