AL AIN JUNIORS SCHOOL- BRITISH SYSTEM LEARNING TRAILS

AY 2023-24: Term 1_Week 10 (30th to 3rd November 2023) GRADE 12

GRADE 12	
MATHEMATICS	IT
Topics:	Topics:
Differentiation,	Prototyping.
	Methods of software development.
Learning Objectives:	
To be able to differentiate the given implicit	Learning Objectives:
functions.	Differentiate between throwaway prototyping,
To be able to differentiate the Parametric	evolutionary prototyping, and incremental
functions.	prototyping.
	Apply the appropriate type of prototyping based on
Resources needed:	the project requirements.
Topical questions, Sample questions.	Analyze the advantages of throwaway prototyping,
	such as quick feedback and exploration of design
Homework/Assignments:	alternatives.
Topical past paper questions.	Evaluate the advantages of incremental
	prototyping, such as iterative development and
	reduced development risks.
	Identify the incremental development phases in
	incremental prototyping, with each iteration adding
	new features or functionality.
	Analyze the overall effectiveness of throwaway
	prototyping in exploring design possibilities and
	eliciting user feedback.
	Resources needed:
	http://searchmanufacturingerp.techtarget.com/def
	inition/prototype
	Cambridge International AS and A level IT- course
	book.
	Past paper questions (9626 paper2)
	Homework/Assignments:
	Solve Past paper questions.

ADVANCED ARABIC	GENERAL ARABIC
Topics:	Topics:
كان وأخواتها	قصيدة الشمس
Learning Objectives:	Learning Objectives:
أن يحدد المتعلم عناصر الجملة عند دخول كان أو إحدى أخواتها	أن يقرأ الطالب الدرس قراءة جهرية صحيحة
أن يعرب المتعلم الجملة إعرابا صحيحا	أن يتعرف الطالب على المفردات الجديدة
أن يوظف المتعلم كان أو إحدى أخواتها في جمل مفيدة	أن يحلل الطالب الدرس تحليلًا لغويًا صحيحًا
	أن يستنتج الطالب أهمية الشمس للإنسان
Resources needed:	
الكتاب المدرسي - الدفتر - العرض التقديمي	Resources needed:
	كتاب الطالب - العرض التقديمي - فيديو عن الشمس
Homework/Assignments:	
حل أسئلة الدرس ص46-47	Homework/Assignments:
كتابة سيرة ذاتية مع مراعاة قواعد الكتابة السليمة	يكتب فقرة عن فوائد الشمس
PHYSICS	BIOLOGY
Topics:	Topics:
Electric field	Control and Coordination
<u>Learning Objectives:</u>	<u>Learning Objectives:</u>
Should be able to	1) Explain the roles of neuromuscular junctions, the
1. State and apply Coulomb's law	T-tubule system and sarcoplasmic reticulum in
2. Define and use electric field strength	stimulating contraction in striated muscle
3. Define and use electric potential	2)describe the ultrastructure of striated muscle
4. Compare gravitational force and electrical	with reference to sarcomere structure using
force	electron micrographs and diagrams
	3) explain the sliding filament model of muscular
Resources needed:	contraction including the roles of troponin,
Copy book, Calculator and stationery	tropomyosin, calcium ions and ATP
	4) Describe the rapid response of the Venus fly trap
Homework/Assignments:	to stimulation of hairs on the lobes of modified
Topical Past papers - SHM	leaves and explain how the closure of the trap is
	achieved
	Resources needed:
	Text Book, Note Book, Stationaries
	Homework/Assignments: Solve the activity sheet
	and topical questions

ISLAMIC ARABIC	ISLAMIC EDUCATION
Topics:	Topics:
رسول الله والحياة الاجتماعية	Social life of the Prophet SAW
Learning Objectives:	·
أن يستدل بأحداث من السيرة على حرص الرسول " ص"	Learning Objectives:
على بناء مجتمع متماسك	Explain the hadith of the Prophet SAW
أن يبين الاستر اتيجيات التي استخدمها الرسول " ص " لتقوية	Explain the benefits of sunnah in daily life
العلاقات الاجتماعية	Describe social Islamic life
أن يربط بين السلم المجتمعي وتطور الدولة المسلمة • أن يحرص على السلم المجتمعي بالتفاعل مع مكونات المجتمع •	
ال يعرف على الشم المجلمعي بالتعاص مع معودات المجلمع	Resources needed:
Resources needed:	Textbook
nesources needed.	PowerPoint
الكتاب المدرسي	Educational Activities
بوربوينت	
أنشطة تعليمية	Homework/Assignments:
منصة ألف	Student Activities,
منطبه الف	Solving Questions from the Alf Platform"
Homework/Assignments:	
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حل أنشطة الطالب	
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حل أسئلة منصة ألف	
CHEMISTRY	ACCOUNTING
CHEMISTRY <u>Topics:</u>	Topics:
CHEMISTRY	
CHEMISTRY Topics: Topic 26 Equilibria	Topics: Manufacturing account
CHEMISTRY Topics: Topic 26 Equilibria Learning Objectives:	Topics: Manufacturing account Learning Objectives:
CHEMISTRY Topics: Topic 26 Equilibria Learning Objectives: Ksp solubility product concept	Topics: Manufacturing account Learning Objectives: How to prepare a manufacturing account, to
CHEMISTRY Topics: Topic 26 Equilibria Learning Objectives:	Topics: Manufacturing account Learning Objectives: How to prepare a manufacturing account, to differentiate between direct and indirect expenses
CHEMISTRY Topics: Topic 26 Equilibria Learning Objectives: Ksp solubility product concept	Topics: Manufacturing account Learning Objectives: How to prepare a manufacturing account, to differentiate between direct and indirect expenses and to include factory profit • how to prepare, for a
CHEMISTRY Topics: Topic 26 Equilibria Learning Objectives: Ksp solubility product concept Common ion effect	Topics: Manufacturing account Learning Objectives: How to prepare a manufacturing account, to differentiate between direct and indirect expenses and to include factory profit • how to prepare, for a manufacturing business, a statement of profit or
CHEMISTRY Topics: Topic 26 Equilibria Learning Objectives: Ksp solubility product concept Common ion effect Resources needed:	Topics: Manufacturing account Learning Objectives: How to prepare a manufacturing account, to differentiate between direct and indirect expenses and to include factory profit • how to prepare, for a manufacturing business, a statement of profit or loss and a statement of financial position • how to
Topics: Topic 26 Equilibria Learning Objectives: Ksp solubility product concept Common ion effect Resources needed: Smart board	Topics: Manufacturing account Learning Objectives: How to prepare a manufacturing account, to differentiate between direct and indirect expenses and to include factory profit • how to prepare, for a manufacturing business, a statement of profit or loss and a statement of financial position • how to account for manufacturing profit and the
Topics: Topic 26 Equilibria Learning Objectives: Ksp solubility product concept Common ion effect Resources needed: Smart board Laptop	Topics: Manufacturing account Learning Objectives: How to prepare a manufacturing account, to differentiate between direct and indirect expenses and to include factory profit • how to prepare, for a manufacturing business, a statement of profit or loss and a statement of financial position • how to account for manufacturing profit and the elimination of unrealised profit from unsold
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Topics: Topic 26 Equilibria Learning Objectives: Ksp solubility product concept Common ion effect Resources needed: Smart board Laptop Past papers Homework/Assignments:	Topics: Manufacturing account Learning Objectives: How to prepare a manufacturing account, to differentiate between direct and indirect expenses and to include factory profit • how to prepare, for a manufacturing business, a statement of profit or loss and a statement of financial position • how to account for manufacturing profit and the elimination of unrealised profit from unsold inventory • the reasons why a business may account for manufacturing profit Resources needed:
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BUSINESS	ECONOMICS
Topics:	Topics:
6.2.2 Corporate planning and implementation	Different Market structures: Monoploy and
Learning Objectives:	monopolistic competition
To analyse the meaning and importance of	
transformational leadership	Learning Objectives:
To analyse the management and control of	To understand the meaning of monopoly and
strategic change	monopolistic competition
Resources needed:	To analyze the efficiency points in both monopoly
ISBN:9781108921220	and monopolistic competition
www.tutor2u.net/blog/index.php/business-	To critically evaluate monopoly and monopolistic
studies/comments/researching-the-royal-mail-a-	competition
great-case-study-in-change-management	
	Resources needed:
Homework/Assignments:	Economics-Second Edition by Peter Smith
• 9609/33 Jun 2020 Q7 (contingency planning)	
• 9609/33 Nov 2017 Q7 (crisis management	Homework/Assignments:
	Go through the CIA paper 2022 and address the
	questions that are asked from the unit-Market

structures