



LEARNING TRAILS AY 2024-25

GRADE: 11 TERM 1_WEEK 5 (23rd to 27th September 2024)

ІТ	MATHEMATICS
Topics:	Topics:
Database and file concepts:	Coordinate Geometry
Normalization.	
ER Diagram.	Learning Objectives:
Checking the accuracy of data (VAlidation and verification)	 Find the equation of a straight line given sufficient information
	• interpret and use any of the forms $y =$
Learning Objectives:	$mx + c y - y_1 = m(x - x_1), ax + by +$
Describe 1NF, 2NF and 3NF.	c=0 in solving problems. Including
Explain the characteristics of first, second and third	calculations of distances, gradients,
normal form.	midpoints, points of intersection and use of
Analyze the advantages and disadvantages of	the relationship between the gradients of
normalization.	parallel and perpendicular lines.
Apply different validations in the relational	• understand that the equation $(x - a)^2$ +
database.	$(y-b)^2=r^2$ represents the circle with
Analyze the difference between validation and	centre (a, b) and radius r including use of the
verification.	expanded form $x^2 + y^2 + 2gx + 2fy +$
Explain different verification methods. (Visual	c = 0
check, double entry, parity check, check sum, hash	
total, control total etc.)	Resources needed:
	PPTs, Textbook, Topic wise past paper questions
Resources needed:	from Search Results (cambridgepapers.net)
Computer systems.	Search Results (cambridgepapers.net)
Smart board.	
Past paper questions.	Homework/Assignments:
Activity sheets	Search Results (cambridgepapers.net)
Homework/Assignments:	
Solve past paper questions	





ADVANCED ARABIC	GENERAL ARABIC
<u>Topics:</u>	Topics:
التشبيه التمثيلي	تابع : هواية والدي
Learning Objectives:	Learning Objectives:
ان يتعرف المتعلم التشبيه التمثيلي أن يتعرف المتعلم التمثيلي التمثيلي	أن بتحدث كل طالب عن هو ابته المفضلة
أن يميز بين التشبيه التمثيلي والتشبيه البليغ	أن يتعرف الاستخدام الأمثل للقطارات
أن ينتج المتعلم جملا تتضمن جملا تتضمن التشبيه التمثيلي	أن يستنتج كيف يستفيد أي شخص من هوايته
والتشبيه البليغ	
Resources needed:	December wooded.
الكتاب المدرسي - بوربوينت - أنشطة تعليمية	Resources needed: الكتاب
العقاب المدرسي - بوربويت - السطه تعليمية	العداب التقديمي
Homework/Assignments:	العديدي العديدي
حل أسئلة الكتاب المدرسي - كتابة موضوع تعبير	
	Homework/Assignments:
	اكتب فقرة عن هوايتك المفضلة
PHYSICS	BIOLOGY
<u>Topics: kine</u> matics	Topics: 2
Equations of motion	Piological Moloculos Lipids and Protoins
Equations of motion	Biological Molecules – Lipids and Proteins
Equations of motion Learning Objectives: understand and solve	Biological Molecules – Lipids and Proteins Learning Objectives:
Learning Objectives: understand and solve	Learning Objectives:
Learning Objectives: understand and solve numerical for projectile based question	Learning Objectives: describe the molecular structure of triglycerides
Learning Objectives: understand and solve numerical for projectile based question Success criteria- Calculating the maximum height	Learning Objectives: describe the molecular structure of triglycerides with reference to fatty acids (saturated and
Learning Objectives: understand and solve numerical for projectile based question Success criteria- Calculating the maximum height	Learning Objectives: describe the molecular structure of triglycerides with reference to fatty acids (saturated and unsaturated), glycerol and the formation of ester
Learning Objectives: understand and solve numerical for projectile based question Success criteria- Calculating the maximum height range, time of flight and vertical velocity	Learning Objectives: describe the molecular structure of triglycerides with reference to fatty acids (saturated and unsaturated), glycerol and the formation of ester
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CHEMISTRY	ACCOUNTING
Topics:	Topics:
Inter molecular Forces	Bank Reconciliation Statement
Learning Objectives:	Learning Objectives:
 Define intermolecular forces and differentiate them from intramolecular forces. 	To formulate bank reconciliation statement
Identify and describe the main types of	Resources needed:
intermolecular forces: London Dispersion	_Text book
Forces, Dipole-Dipole Interactions, and Hydrogen Bonds.	Video
Relate intermolecular forces to the physical	Task Sheets
properties of substances such as boiling points, melting points, and solubility.	Homework/Assignments:
 Explain the role of intermolecular forces in real- 	Topical questions
world applications (e.g., water's properties,	
biological molecules)	
Resources needed:	
 Molecular models (optional, for visualizing 	
forces)	
Worksheet on intermolecular forces (for	
homework or class activity)	
Water, alcohol, and oil (for a simple	
demonstration of molecular interactions)	
Homework/Assignments: For each of the following	
molecules, identify the type(s) of intermolecular	
forces present (choose from London Dispersion	
Forces, Dipole-Dipole Interactions, and Hydrogen	
Bonding).	
1. H ₂ O (Water)	
2. CO ₂ (Carbon Dioxide)	
3. NH₃ (Ammonia)4. CH₄ (Methane)	
5. HCl (Hydrogen Chloride)	
6. C₂H₅OH (Ethanol)	





ISLAMIC ARABIC	ISLAMIC EDUCATION
Topics:	Topics:
الاستعفاف	Aql (Reason) and Naql (Revelation)
Learning Objectives:	Learning Objectives:
أن يبين المقصود بالاستعفاف.	Understand the relationship between 'Aql (reason)
أن يبين أثر الإستعفاف على الفرد والمجتمع	and Naql (revelation) in Islamic thought.
أن يوضح مجالات الاستعفاف.	Analyze how reason and revelation work together
أن يحرص على تمثل القيم والأخلاق الإسلامية	to guide moral and spiritual decisions.
Resources needed:	Resources needed:
الكتاب المدرسي	Qur'an verses that discuss the role of reason (e.g.,
البوربوينت	Surah Al-Bagarah 2:164, Surah Al-Anfal 8:22).
أنشطة صفية	Selections from Hadith emphasizing the balance
Homework/Assignments:	between intellectual reasoning and following divine
حل أنشطة الطالب بالكتاب المدرسي	guidance.
مراجعة البوريوينت للدرس	Suitanie
(h)	Homework/Assignments:
	Research and present one example from Islamic
	history where a scholar successfully balanced 'Aql
	and Naql in resolving an issue.4o
ECONOMICS	BUSINESS
Topics:	Topics:
Income elasticity of Demand	Motivation
Cross elasticity of Demand	
	<u>Learning Objectives:</u>
Learning Objectives:	To evaluate different methods of motivation
Analyse the significance of relative percentage	
changes in demand and supply.	Resources needed:
Explain the coefficients of price elasticity of	<u>T</u> ext Book
demand, income elasticity of demand, and cross	Data response questions with mark scheme
elasticity of demand.	
	Homework/Assignments:
Resources needed: Devices, notebook, MS Teams	Solve topical questions- uploaded in teams
Homework/Assignments:	
Solve topical questions	



