



LEARNING TRAILS AY 2024-25

GRADE: 11

TERM 1_WEEK 6 (30th to 4th October 2024)

IT	MATHEMATICS
<p>Topics: Database: Normalization.</p> <p>Learning Objectives: Describe the characteristics of data in</p> <ul style="list-style-type: none">• unnormalized form (UNF)• first normal form (1NF)• second normal form (2NF)• third normal form (3NF). <p>Normalize a database to:</p> <ul style="list-style-type: none">• first normal form (1NF)• second normal form (2NF)• third normal form (3NF). <p>Resources needed: www.youtube.com/watch?v=fg7r3DgS3rA Computer system Smart board</p> <p>Homework/Assignments: Solve past paper questions</p>	<p>Topics: Coordinate Geometry</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">• To find the equation of the line, which is parallel, perpendicular to the given line.• To be able to find the missing co-ordinates in the given quadrilateral.• use algebraic methods to solve problems involving lines and circles <p>Resources needed: Microsoft PPT, Smartboard, Textbook questions, Topical questions from Search Results (cambridgepapers.net)</p> <p>Homework/Assignments: Search Results (cambridgepapers.net) Search Results (cambridgepapers.net)</p>
ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: بلاغة - التشبيه التمثيلي</p> <p>Learning Objectives: يتعرف التشبيه التمثيلي يحلل التشبيه التمثيلي وينتج جملاً تتضمنه يوظف التشبيه في مواقف حياتية</p> <p>Resources needed: الكتاب المدرسي - العرض التقديمي - أنشطة تعليمية</p>	<p>Topics: المعرض</p> <p>Learning Objectives: يتعرف البرنامج الثقافي للمعرض يتحدث عن الفعاليات لاي معرض قام بزيارته يحدد أجزاء الجملة الفعلية</p> <p>Resources needed: الكتاب - العرض التقديمي - الإنترنت</p>



PHYSICS	BIOLOGY
<p>Homework/Assignments: جل أسئلة الكتاب المدرسي - كتابة موضوع تعبير</p>	<p>Homework/Assignments: اكتب ثلاث جمل فعلية</p>
<p>Topics: Kinematics – Progressive Assessment Dynamics</p> <p>Learning Objectives: understand that mass is the property of an object that resists change in motion 2 recall $F = ma$ and solve problems using it, understanding that acceleration and resultant force are always in the same direction 3 define and use linear momentum as the product of mass and velocity 4 define and use force as rate of change of momentum 5 state and apply each of Newton’s laws of motion 6 describe and use the concept of weight as the effect of a gravitational field on a mass and recall that the weight of an object is equal to the product of its mass and the acceleration of free fall</p> <p>Resources needed: Forces and Motion simulations: https://phet.colorado.edu/en/simulation/forces-and-motion-basics https://phet.colorado.edu/en/simulation/legacy/forces-and-motion Teacher notes and learner worksheets from the IoP on Newton’s laws: https://spark.iop.org/newtons-laws-motion Cambridge AS level Course Book</p> <p>Homework/Assignments: Activity sheet –given and Past papers [2016-2021]</p>	<p>Topics: 2 Biological Molecules – Proteins and Water</p> <p>Learning Objectives: describe the structure of a molecule of haemoglobin as an example of a globular protein, including the formation of its quaternary structure from two alpha (α) chains (α-globin), two beta (β) chains (β-globin) and a haem group</p> <p>Resources needed: www.biotopics.co.uk/as/lipidcondensation.html</p> <p>Homework/Assignments: Relate the molecular structure of proteins to their functions in living organisms.</p>



CHEMISTRY	ACCOUNTING
<p>Topics: Chemical Bonding</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">Define intermolecular forces of attraction and distinguish between different types.Explain the differences between Van der Waals forces (London dispersion forces), dipole-dipole interactions, and hydrogen bonding.Predict the physical properties (such as boiling point and melting point) based on the type and strength of intermolecular forces.Apply their understanding of intermolecular forces to explain the behavior of various substances. <p>Resources needed:</p> <ul style="list-style-type: none">Molecular model kitHandouts with diagrams of molecular interactionsProjector for video/visualsExample compounds (water, ethanol, methane, iodine, etc.) <p>Homework/Assignments: Textual Questions and topical from Save My Exams</p>	<p>Topics: Financial Statement of Sole traders</p> <p>Learning Objectives: To formulate income statement and Statement of financial position of sole traders</p> <p>Resources needed: Text book Task Sheets PPTs</p> <p>Homework/Assignments: Text book Q1,2 and Topical questions (to be assigned through TEAMS)</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: العقود المالية في الإسلام</p> <p>Learning Objectives: . أن يبين معنى العقود . أن يستنتج أهمية تنظيم العقود المالية . أن يحدد أركان العقود المالية وشروطها</p> <p>Resources needed: الكتاب المدرسي البوربوينت أنشطة صفية</p>	<p>Topics: Abstinence (Isti'faaf)</p> <p>Learning Objectives: Understand the concept of abstinence (Isti'faaf) in the context of Islamic teachings. Recognize the importance of self-discipline and self-restraint in maintaining moral and ethical behavior.</p> <p>Resources needed:</p>



<p>Homework/Assignments: حل أنشطة الطالب بالكتاب المدرسي مراجعة البوربوينت للدرس</p>	<p>Qur'an and Hadith: Key Islamic texts highlighting the concept of abstinence and self-discipline. Case Studies/Articles: Examples of individuals who practiced Isti'faaf in challenging situations.</p> <p>Homework/Assignments: Write a 300-word reflection on how practicing Isti'faaf can help manage peer pressure and promote a healthy lifestyle in today's society. Include examples from Islamic teachings and personal observations.</p>
<p>ECONOMICS</p>	<p>BUSINESS</p>
<p>Topics: Price Elasticity of Supply</p> <p>Learning Objectives: Define price elasticity of supply (PES). Analyse the basic concept of how PES measures responsiveness of quantity supplied to price changes. Calculate the formula for calculating PES. Apply the formula to calculate PES for different products.</p> <p>Resources needed: Smart board, The Supply Curve Microeconomics Videos (mru.org)</p> <p>Homework/Assignments: Complete assigned task</p>	<p>Topics: Management</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">• assess the importance of good management to the success of a business• evaluate the differences between the views of Fayol and Mintzberg on the role of management <p>Resources needed: Textbook Case studies</p> <p>Homework/Assignments: Topical case studies with mark scheme</p>