

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM

LEARNING TRAILS


AY 2023-24: Term 2_Week 5 (29th to 2nd February 2024)

GRADE 12

MATHEMATICS	IT
<p>Topics: Vectors</p> <p>Learning Objectives: To be able to add and subtract the given vectors for three dimensions. To be able to find the scalar product of the given vectors To be able to find the angle between two vectors. To be able to find the magnitude of the given vectors.</p> <p>Resources needed: Sample questions</p> <p>Homework/Assignments: Past paper questions from 2002-2016 paper1</p>	<p>Topics: Programming (Control structures) Programming (Loop Control structures)</p> <p>Learning Objectives: Describe different control structures in programming. Implement Control Structures using java script (Conditional statement). Describe the importance of loops in a program. Differentiate Between Count-Controlled and Condition-Controlled Loops. Implement Loop Control Structures in java script.</p> <p>Resources needed: Task sheet, Computer system</p> <p>Homework/Assignments: Solve past paper questions</p>
ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: السماور</p> <p>Learning Objectives: أن يتتبع المتعلم الأثر الذي يتركه أسلوب الكاتب واستخدامه لبعض التقنيات البلاغية لإيصال الفكرة والتأثير في القارئ أن يحدد جوانب معينة من النصوص الأدبية ويفهمها ويحلل عناصر النص أن يتتبع تقنيات الوصف باستخدام الكاتب للتقنيات البلاغية لإبراز ما يصفه من شخصيات ومكان وحالات شعورية</p> <p>Resources needed: الكتاب المدرسي - العرض التقديمي - أوراق نشاط - منصة ألف</p> <p>Homework/Assignments: حل ص 67 - حل أسئلة منصة ألف</p>	<p>Topics: درس الشبكة العنكبوتية</p> <p>Learning Objectives: أن يتعرف الطلاب على المفردات الواردة في الدرس أن يقرأ الطلاب قراءة جهرية صحيحة أن يستنتج الطلاب المهارات اللغوية والنحوية من الدرس أن يتحدث الطلاب عن أهمية الشبكة العنكبوتية</p> <p>Resources needed: كتاب الطالب - العرض التقديمي - فيديو عن الشبكة العنكبوتية</p> <p>Homework/Assignments: يكتب فقرة عن الشبكة العنكبوتية</p>

PHYSICS	BIOLOGY
<p>Topics: Planning, analysis and evaluation - Design an experiment to verify relationship between variables-</p> <p>Learning Objectives: Should be able to Define the given problem Sketch a diagram to show set of apparatus Describe the method for measurements Method of analyzing data Suggest safety measures</p> <p>Resources needed: Devices- laptop/tablet, smart board</p> <p>Homework/Assignments: <i>Paper 52 –2019 may/june and Oct</i></p>	<p>Topics: Evolution & Gene technology</p> <p>Learning Objectives: Should be able discuss how DNA sequence data can show evolutionary relationships between species Define the term recombinant DNA Explain that genetic engineering is the deliberate manipulation of genetic material to modify specific characteristics of an organism Describe and explain the steps involved in the polymerase chain reaction (PCR) to clone and amplify DNA, including the role of Taq polymerase Describe . Explain how gel electrophoresis is used to separate DNA fragments of different lengths outline how microarrays are used in the analysis of genome and in detecting mRNA in studies of gene expression</p> <p>Resources needed: Devices - laptop/tablet, smart board, activity sheet</p> <p>Homework/Assignments: Topical questions as activity sheet</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: المنهج النبوي في الرعاية الصحية</p> <p>Learning Objectives: أن يوضح مفهوم الصّحية ورعايتها أن يبين أهمية الصحة في حياة الفرد والمجتمع أن يستنتج مقوّمات الصّحة في السنة النبوية</p> <p>Resources needed: الكتاب المدرسي بوربوينت أنشطة تعليمية</p>	<p>Topics: The Prophetic Methodology in Health Care</p> <p>Learning Objectives: Appraise the concept of health and health care methods. Infer the causes behind the spread of diseases despite the progress achieved in medical science.</p> <p>Resources needed: Board, projector, marker, textbook</p> <p>Homework/Assignments: Solve students' activities in the textbook</p>

<p>منصة ألف</p> <p>Homework/Assignments:</p> <p>حل أنشطة الطالب حل أسئلة منصة ألف</p>	
CHEMISTRY	ACCOUNTING
<p>Topics: P52 Planning and Evaluation</p> <p>Learning Objectives: Students will plan experiment to investigate the effect of carbon lengths on combustion enthalpy of alcohols. Students will plan experiment to investigate effect of temperature on rate.</p> <p>Resources needed: P5, smartboards, laptops/tabs, printouts</p> <p>Homework/Assignments:</p>	<p>Topics: Partnership Changes –Admission of partner Dissolution of partnership</p> <p>Learning Objectives: Formulate partners’ capital and current accounts to record changes required in respect of goodwill and revaluation of assets on: – a change in the partners’ profit-sharing ratio – the introduction of a new partner and dissolution of partnership</p> <p>Resources needed: Video PPT Task sheets Case studies Tab</p> <p>Homework/Assignments: Research on the rules governing partnership business in UAE</p>
BUSINESS	ECONOMICS
<p>Topics: Financial Statements.</p> <p>Learning Objectives: To prepare financial statements. To evaluate financial statements.</p> <p>Resources needed: Formats of Financial statements. Data Response questions</p> <p>Homework/Assignments: Find out various financial statements published and released by the Ministry of UAE</p>	<p>Topics: Macro-Economic policy</p> <p>Learning Objectives: To analyze the objectives of macro-economic policies in terms of inflation, balance of point and unemployment, economic growth, economic development, sustainability, and redistribution of income and wealth. To evaluate the interrelationship among the macro-economic problems and the effectiveness of the policy options.</p> <p>Resources needed: Economics by Peter Smith and Past Papers</p>



	<p><u>Homework/Assignments:</u></p>
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Find solutions to the relevant questions given at the end of the unit in the textbook.