

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM

LEARNING TRAILS

AY 2023-24: Term 2_Week 7 (12th to 16th February 2024)

GRADE 11

MATHEMATICS	IT
<p>Topics: THE NORMAL DISTRIBUTION</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> understand the use of a normal distribution to model a continuous random variable, and use normal distribution tables solve problems concerning a variable X, where $X \sim N(\mu, \sigma^2)$ for calculations involving standardisation $Z = \frac{(X-\mu)}{\sigma}$ recall conditions under which the normal distribution can be used as an approximation to the binomial distribution, and use this approximation, with a continuity correction, in solving problems with n sufficiently large to ensure that both np > 5 and nq > 5. <p>Resources needed: Textbook, Smartboards CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Search Results (cambridgepapers.net)</p> <p>Homework/Assignments: CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Search Results (cambridgepapers.net) CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Search Results (cambridgepapers.net)</p>	<p>Topics: Algorithms and flowcharts: Edit a given flowchart. Draw a flowchart to solve a given problem. The digital divide: Database.</p> <p>Learning Objectives: Candidates should be able to draw a basic program flowchart that demonstrates a decision-making process Including: input/output, decision, terminator (start, stop), process boxes, subroutine, connector and flow line. Describe Causes and effects of the digital divide. Analyze the effects of the digital divide.</p> <p>Resources needed: Case studies, task sheets, text book</p> <p>Home work Solve past paper questions.</p>

ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: قصيدة الطين - إيليا أبو ماضي</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> • أن يبين المعنى الإجمالي للنص الشعري موضحا علاقة الفكر بعضها ببعض مفسرا مفرداتها من خلال السياق • أن يحلل النص في سياقه التاريخي والاجتماعي والسياسي مستخلصا السمات الفنية له • أن يفسر مفردات النص مستنتجا الدلالات التعبيرية فيه <p>Resources needed: بوربوينت - الكتاب المدرسي - منصة ألف - اختبار الكتروني</p> <p>Homework/Assignments: حل أسئلة الكتاب المدرسي - حل أسئلة منصة ألف</p>	<p>Topics: طاقم الطائرة</p> <p>Learning Objectives: يجيب عن الأسئلة الخاصة بالدرس يتدرب على أنواع الجموع يكتب جمل على كل نوع</p> <p>Resources needed: العرض - الكتاب - الانترنت</p> <p>Homework/Assignments: قارن بين أنواع الجمع</p>
PHYSICS	BIOLOGY
<p>Topics: Waves-Stationary waves</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> • Show an understanding of experiments that demonstrate stationary waves using microwaves, stretched • Strings and air columns (it will be assumed that end corrections are negligible; knowledge of the concept • Of end corrections is not required) • 3 explain the formation of a stationary wave using a graphical method, and identify nodes and antinodes • 4 understand how wavelength may be determined from the positions of nodes or antinodes of a stationary wave <p>Resources needed: Text Book, Past papers</p> <p>Homework/Assignments: <i>Past papers [2016-2020] both MCQ and SQ</i></p>	<p>Topics: 9 Gas Exchange</p> <p>Learning Objectives: describe the structure of the human gas exchange system, limited to:</p> <ul style="list-style-type: none"> • lungs • trachea • bronchi • bronchioles • alveoli • capillary network <p>Resources needed: www.nuffieldfoundation.org/practical-biology/using-spirometer-investigate-human-lung-function</p> <p>Homework/Assignments: Solve Past paper questions –Paper 42 -May/June 2021 and 2022</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: وصايا وتوجيهات أخلاقية</p> <p>Learning Objectives: أن يتلو الآيات تلاوة مجودة ويعرف معانيها. أن يبين دلالات الآيات الكريمة أن يستنتج مجالات الإقتداء بالرسول</p>	<p>Topics: Surah al Ahzab (28-35)</p> <p>Learning Objectives: Explain the meaning of the Quranic ayah Discuss the reason of revelation of the Quranic ayah.</p>

<p>Resources needed:</p> <ul style="list-style-type: none"> • الكتاب المدرسي • اليوربوينت • منصة ألف • أنشطة صفية <p>Homework/Assignments:</p> <ul style="list-style-type: none"> • حل أنشطة الطالب بالكتاب المدرسي • حل منصة ألف • مراجعة اليوربوينت للدرس 	<p>Resources needed:</p> <p>Board, projector, marker, textbook</p> <p>Homework/Assignments:</p> <p>Solve students' activity in textbook</p>
CHEMISTRY	ACCOUNTING
<p>Topics: Halogeno Alkanes</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> • Recall the reactions (reagents and conditions) by which halogenoalkanes can be produced: • Classify halogenoalkanes into primary, secondary and tertiary • Describe the following nucleophilic substitution reactions: <p>Resources needed:</p> <p>Learners make models and draw 2-D and 3-D representations of primary, secondary and tertiary halogenoalkanes.</p> <p>They could also build virtual models and rotate them using the following virtual lab program: molview.org/ [learners first construct 2-D structures and the program transforms these into 3-D rotational images]</p> <p>Homework/Assignments: Textual Questions</p>	<p>Topics: Marginal costing</p> <p>Learning Objectives:</p> <p>To reconcile profit as per marginal costing and absorption costing</p> <p>Resources needed:</p> <p>Text book Task Sheets</p> <p>Homework/Assignments:</p> <p>Topical questions</p>
BUSINESS	
<p>Topics: Capacity utilization</p> <p>Learning Objectives: To evaluate the application of various levels of capacity of business in presenting their efficiency</p> <p>Resources needed:</p> <p>Case studies Handouts of formulas Data response questions.</p> <p>Homework/Assignments: Solving end of chapter questions.</p>	