

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM
LEARNING TRAILS

AY 2023-24: Term 2_Week 6 (5th to 9th February 2024)

GRADE 11

MATHEMATICS	IT
<p>Topics: BINOMIAL AND GEOMETRIC DISTRIBUTIONS</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> • use formulae for probabilities for the binomial and geometric distributions, and recognise practical situations where these distributions are suitable models • use formulae for the expectation and variance of the binomial distribution and for the expectation of the geometric distribution. <p>Resources needed: Textbook, Past Paper questions from 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)</p> <p>CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Search Results (cambridgepapers.net)</p>	<p>Topics:</p> <ul style="list-style-type: none"> • Algorithms and flowcharts: • Edit a given algorithm. • Write an algorithm using pseudocode to solve a given problem. • Design flowchart for the given problem. <p>Learning Objectives:</p> <ul style="list-style-type: none"> • Describe the importance of loops in a program. • Differentiate Between Count-Controlled and Condition-Controlled Loops. • Implement Loop Control Structures in the form of flow chart and pseudocode. <p>Resources needed: video tutorials, PPT, task sheets.</p> <p>Homework/Assignments: Work with past paper questions.</p>
ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: النداء</p> <p>Learning Objectives: أن يتعرف المتعلم جملة النداء أن يعرب جملة النداء إعراباً صحيحاً أن يوظف النداء في مواقف حياتية</p> <p>Resources needed: بوربوينت - الكتاب المدرسي - منصة ألف</p>	<p>Topics: طاقم الطائرة</p> <p>Learning Objectives: يتدرب على القراءة يتعرف دور المضيف يكتب المفردات في جمل</p> <p>Resources needed: العرض - الكتاب - منصة ألف</p>

<p>Homework/Assignments: حل أسئلة الكتاب المدرسي - حل أسئلة منصة ألف</p>	<p>Homework/Assignments: اكتب فقرة عن عمل المضيفة</p>
PHYSICS	BIOLOGY
<p>Topics: Electricity</p> <p>Learning Objectives: 3 Resistance and resistivity 6 recall and use $R = \rho L / A$ 7 understand that the resistance of a light-dependent resistor (LDR) decreases as the light intensity increases 8 understand that the resistance of a thermistor decreases as the temperature increases understand the effects of the internal resistance of a source of e.m.f. on the terminal potential difference</p> <p>Resources needed: Teacher notes and learner worksheets from the IoP on e.m.f. and internal resistance: https://spark.iop.org/collections/emf-and-internal-resistance https://spark.iop.org/internal-resistance-fruit-and-vegetable-cells</p> <p>Homework/Assignments: [2016-2020] practice booklet both SQ and MCQ</p>	<p>Topics: 8 Transport in animals</p> <p>Learning Objectives: Recognise and draw red blood cells, monocytes, neutrophils and lymphocytes from microscope slides, photomicrographs and electron micrographs</p> <p>Resources needed: www.youtube.com/watch?v=LqhvmUEdOYY&amp&index=10&list=PL806169ECA3C97794</p> <p>Homework/Assignments: Solve Past Papers: 2020 Oct/Nov Paper 22 and 42</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: أقسام الحديث الشريف</p> <p>Learning Objectives: أن يبين أقسام الحديث الشريف أن يفرق بين الحديث الصحيح والحسن والضعيف</p> <p>Resources needed: الكتاب المدرسي بوربوينت أنشطة تعليمية منصة ألف</p> <p>Homework/Assignments: حل أنشطة الطالب حل أسئلة منصة ألف</p>	<p>Topics: Mutawatir and Ahaad hadith</p> <p>Learning Objectives: Differentiate between Mutawatir and Ahaad hadith. Differentiate between types of Ahaad hadith.</p> <p>Resources needed: Board, projector marker, textbook</p> <p>Homework/Assignments: Solve students' activity in the textbook</p>

CHEMISTRY	ACCOUNTING
<p>Topics:Hyrocarbons</p> <p>Learning Objectives: Recall the reactions (reagents and conditions) by which alkanes can be produced: (a) addition of hydrogen to an alkene in a hydrogenation reaction, H₂(g) and Pt/Ni catalyst and heat (b) Cracking of a longer chain alkane, heat with Al₂O₃ 2 describe: (a) the complete and incomplete combustion of alkanes (b) the free-radical substitution of alkanes by Cl₂ or Br₂ in the presence of ultraviolet light, as exemplified by the reactions of ethane</p> <p>Resources needed: Virtual models Sites allowing learners to build molecular models and explore their shape: molview.org/ chemagic.org/molecules/amini.html</p> <p>Homework/Assignments: Learners could test each other's knowledge of functional groups and naming organic molecules using flashcards or creating a quizlet, for example: quizlet.com/7468964/organic-chemistry-functional-groups-flash-cards/</p>	<p>Topics: Accounting for Partnerships</p> <p>Learning Objectives: To formulate financial statements of partnership business</p> <p>Resources needed: Text book Task Sheet</p> <p>Homework/Assignments: Topical questions</p>
BUSINESS	
<p>Topics: Inventory management</p> <p>Learning Objectives: To analyze JIT method of inventory valuation.</p> <p>Resources needed: Text book. Case studies</p> <p>Homework/Assignments: Solve end of chapter questions</p>	