

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM
LEARNING TRAILS
AY 2023-24: Term 2_ Week 3 (15th to 19th January 2024)
GRADE 11

MATHEMATICS	IT
<p>Topics: Further Differentiation</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> • Apply differentiation to increasing and decreasing functions • Apply differentiation to rates of change • Locate stationary points and determine their nature <p>Resources needed:</p> <p>Textbook, PPTs, Past Papers</p> <p>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>CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Search Results (cambridgepapers.net)</p> <p>Homework/Assignments:</p> <p>CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Search Results (cambridgepapers.net)</p> <p>CAIE Mathematics: Topic-Wise Study Guides,</p>	<p>Topics: Safety and security</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> • Describe the online safety issues such as phishing, pharming, spam etc. • Discuss the methods to prevent phishing and pharming. • Develop strategies to protect themselves from phishing and pharming. • Students can use the function to display current date and time in a specific format in a spreadsheet. • Students can apply text function and concatenation operator in the spreadsheet. • Students can apply conditional formatting to identify similar data from a column of data. <p>Resources needed: Text book, activity sheet, PPT</p> <p>Homework/Assignments: Solve past paper questions.</p>

ADVANCED ARABIC

Topics:

- قصة حتى آخر رمق

Learning Objectives:

- أن يتعرف المتعلم عنصر الراوي ووجهة النظر في القصة
- أن يحلل المتعلم القصة إلى عناصرها الفنية موضحاً رأيه في الشخصيات
- أن يتعرف المتعلم دور الراوي في تقديم وجهة نظر معينة تحكي من خلالها القصة، وأثر ذلك في البناء القصصي وتشكيل عناصره

Resources needed:

- الكتاب المدرسي - البوربوينت - أنشطة صفية تعليمية

Homework/Assignments:

- حل أسئلة منصة ألف

GENERAL ARABIC

Topics:

تابع حماية البيئة

Learning Objectives:

يتعرف اسباب تلوث البيئة
يستنتج كيفية حماية البيئة
يتدرب على جمع المذكر السلام

Resources needed:

الكتاب - العرض - منصة الف

Homework/Assignments:

(اجمع هذه الكلمات جمع مذكر سالم) المجاهد -المتفوق- المعلم

PHYSICS

Topics: Waves

Polarisation, superposition of waves

Learning Objectives:

understand that polarisation is a phenomenon associated with transverse waves
2 recall and use Malus's law ($I = I_0 \cos^2\theta$) to calculate the intensity of a plane polarised electromagnetic wave after transmission through a polarising filter or a series of polarising filters
understand the terms interference and coherence
2 show an understanding of experiments that demonstrate two-source interference using water waves in a ripple tank, sound, light and microwaves

Resources needed:

Task sheet, practice booklet, text book, pictures
Ipad, laptops, Animations

BIOLOGY

Topics:

Unit: 6 Nucleic acids and Protein Synthesis

Learning Objectives:

describe the structure of a DNA molecule as a double helix,
including: the importance of complementary base pairing between the
5' to 3' strand and the 3' to 5' strand (antiparallel strands), differences in hydrogen bonding between C-G and A-T base
Pairs, linking of nucleotides by phosphodiester bonds

Resources needed:

www.youtube.com/watch?v=J3HVV2k2No

Text Book, Past Papers

<p>Homework/Assignments Practice booklet-2016-2020</p>	<p>Homework/Assignments: research and evaluate the definition of gene that is commonly used at this level: 'A gene is a length of DNA that codes for a polypeptide.'</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: درس الإقتداء برسول الله صلى الله عليه وسلم</p> <p>Learning Objectives: أن يتلو الطالب الآيات الكريمة تلاوة صحيحة مجودة أن يفسر الآيات تفسيراً إجمالياً مع معانيها أن ويستنتج بعض دلالات الآيات وأوضح المواقف الواردة</p> <p>Resources needed: الكتاب المدرسي البوربوينت منصة ألف</p> <p>Homework/Assignments: حل أنشطة الطالب بالكتاب المدرسي حفظ الآيات الكريمة ومعاني الكلمات</p>	<p>Topics: Surah Al Ahzab</p> <p>Learning Objectives: Explain the meaning of the Quranic Ayah Discuss the story of the believers from the ayah</p> <p>Resources needed: Book, PPT Student's activities Revision of power point. Muqitweb.com</p> <p>Homework/Assignments: Solve students' activities in textbook</p>
CHEMISTRY	ACCOUNTING
<p>Topics: Periodicity</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> Describe qualitatively (and indicate the periodicity in) the variations in atomic radius, ionic radius, melting point and electrical conductivity of the elements. Explain the variation in melting point and electrical conductivity in terms of the structure and bonding of the elements <p>Resources needed: www.thoughtco.com/chemical-element-pictures-photo-gallery-4052466 [scroll through images of each of the elements] www.youtube.com/watch?v=pKGZG6W51Os [images of each element]</p>	<p>Topics: Marginal Costing</p> <p>Learning Objectives: To apply marginal costing techniques in decision making - Use of limited resources</p> <p>Resources needed: Formats Task Sheets Video</p> <p>Homework/Assignments: Topical questions</p>

Homework/Assignments:

Topical Questions from Save my exams.

BUSINESS

Topics:

Marketing mix

Learning Objectives:

To analyze how the elements of marketing mix are decided for the NPD

Resources needed:

Textbook

Case studies with Mark scheme

Homework/Assignments:

Solve topical past paper.