

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM  
LEARNING TRAILS

AY 2023-24: Term 1\_Week 12 (13<sup>th</sup> to 17<sup>th</sup> November 2023)

GRADE 11

MATHEMATICS	IT
<p><b>Topics:</b> Probability</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>• Evaluate probabilities in simple cases by means of enumeration of equiprobable elementary events, or by calculation using permutations or combinations</li><li>• Use addition and multiplication of probabilities, as appropriate, in simple cases</li><li>• Understand the meaning of exclusive and independent events, including determination of whether events A and B are independent by comparing the values of <math>P(A \cap B)</math> and <math>P(A) \times P(B)</math></li><li>• Calculate and use conditional probabilities in simple cases.</li></ul> <p><b>Resources needed:</b> Textbook, Past Paper Questions from <a href="#">CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources   Search Results (cambridgepapers.net)</a></p> <p><b>Homework/Assignments:</b> <a href="#">CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources   Search Results (cambridgepapers.net)</a> <a href="#">CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources   Search Results (cambridgepapers.net)</a></p>	<p><b>Topics:</b> Monitoring technologies:</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>• Evaluate the advantages of monitoring technologies, such as real-time data collection, remote monitoring capabilities, and early detection of anomalies.</li><li>• Assess the disadvantages of monitoring technologies, including high initial costs, data privacy concerns, and potential technical limitations.</li><li>• Discuss the ethical considerations associated with the use of monitoring technologies, such as data security and potential invasions of privacy.</li></ul> <p><b>Resources needed:</b> <a href="https://learn.adafruit.com/calibrating-sensors?view=all">https://learn.adafruit.com/calibrating-sensors?view=all</a></p> <p><b>Homework/Assignments:</b> Solve Past paper questions.</p>

ADVANCED ARABIC	GENERAL ARABIC
<p><b>Topics:</b> <u>سيرة ذاتية - يوم العيد</u></p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"> <li>• أن يقرأ التفاصيل الواردة في السيرة الذاتية ويربط بينها</li> <li>• أن يتتبع مظاهر البيئة في السيرة الذاتية</li> <li>• أن يستعرض الأدلة التي استخدمها الكاتب لدعم فكرته المحورية</li> <li>• أن يستنتج القيم الظاهرة والباطنة في السيرة الذاتية</li> </ul> <p><b>Resources needed:</b></p> <ul style="list-style-type: none"> <li>• الكتاب المدرسي</li> <li>• العرض التقديمي</li> <li>• منصة ألف</li> <li>• اختبار الكتروني</li> </ul> <p><b>Homework/Assignments:</b></p> <ul style="list-style-type: none"> <li>• حل أسئلة الكتاب المدرسي</li> <li>• حل أسئلة منصة ألف</li> </ul>	<p><b>Topics:</b> تابع ( سباق الهجن ) يتم تكملة الدرس نظراً لأختبار الطلاب في الكتابة والتحدث الأسبوع الماضي</p> <p><b>Learning Objectives:</b> يتعرف على سباق الهجن يستنتج قاعدة المثني يستطيع أن يثنى الكلمات المفردة</p> <p><b>Resources needed:</b> الكتاب العرض التقديمي السيبورة</p> <p><b>Homework/Assignments:</b> اكتب فقرة عن سباق الهجن</p>
PHYSICS	BIOLOGY
<p><b>Topics:</b> Work power and Energy</p> <p><b>Learning Objectives:</b> derive, using <math>W = Fs</math>, the formula <math>\Delta EP = mg\Delta h</math> for gravitational potential energy changes in a uniform gravitational field 2 recall and use the formula <math>\Delta EP = mg\Delta h</math> for gravitational potential energy changes in a uniform gravitational field 3 derive, using the equations of motion, the formula for kinetic energy <math>EK = 1/2mv^2</math> 4 recall and use <math>EK = 1/2mv^2</math></p> <p><b>Resources needed:</b> Text Book, copy book, past paper Booklet</p> <p><b>Homework/Assignments:</b> Past paper question j2016=N2020]</p>	<p><b>Topics:</b> Unit:4 Cell Membrane &amp; Unit:5 The Mitotic Cell division</p> <p><b>Learning Objectives:</b> Explain the movement of water between cells and solutions in terms of water potential and explain the different effects of the movement of water on plant cells and animal cells Describe the structure of a chromosome, limited to:</p> <ul style="list-style-type: none"> <li>• DNA</li> <li>• histone proteins</li> <li>• sister chromatids</li> <li>• centromere</li> <li>• telomeres</li> </ul> <p><b>Resources needed:</b> <a href="http://www.hhmi.org/biointeractive/dna-packaging">www.hhmi.org/biointeractive/dna-packaging</a> <a href="http://www.dnalc.org/resources/3d/07-how-dna-is-packaged-basic.html">www.dnalc.org/resources/3d/07-how-dna-is-packaged-basic.html</a></p>

	<u>Homework/Assignments:</u> Solve past paper questions and end of the topic questions from text book.
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p><b>Topics:</b> آداب الحوار</p> <p><b>Learning Objectives:</b>            ان يبين المقصود بأدب الحوار            * أن يحدد آداب الحوار و صفات المحاور            * أن يعدد آداب الاستماع و فوائد الاصغاء            * أن يتعلم آفات الحوار*</p> <p><b>Resources needed:</b>            الكتاب المدرسي            بوربوينت            أنشطة تعليمية            منصة ألف</p> <p><b>Homework/Assignments:</b></p> <ul style="list-style-type: none"> <li>• حل أنشطة الطالب</li> <li>• حل أسئلة منصة ألف</li> </ul>	<p><b>Topics:</b> Manners of Dialogue</p> <p><b>Learning Objectives:</b>            a. Understand the importance of respectful and effective dialogue in Islam.            b. Identify and practice key manners of dialogue in Islamic teachings.</p> <p><b>Resources needed:</b>            a. Books: Islamic etiquette books, such as "Islamic Manners" by Abdul Fattah Abu Ghudwah. b. Online resources: Islamic educational websites, such as Islamic Finder and Islami city, for additional reading materials and interactive content. c. Mobile apps: Islamic etiquette apps, such as "Islamic Manners &amp; Etiquettes" and "Islamic Manners for Children."</p> <p><b>Homework/Assignments:</b>            Solve students' activities in the textbook.            Revise PPT</p>
CHEMISTRY	ACCOUNTING
<p><b>Topics:</b> Chemical Energetics</p> <p><b>Learning Objectives:</b>            Carry out calculations using cycles and relevant energy terms, including:            Determining enthalpy changes that cannot be found by direct experiment use of bond energy data.</p> <p><b>Resources needed:</b>  <a href="http://chemistryguru.com.sg/energy-cycle-for-enthalpy-change-of-formation">chemistryguru.com.sg/energy-cycle-for-enthalpy-change-of-formation</a>  <a href="http://www.docbrown.info/page07/delta1Ha.htm">www.docbrown.info/page07/delta1Ha.htm</a></p>	<p><b>Topics:</b> Incomplete records</p> <p><b>Learning Objectives:</b>            To calculate the missing values of sales, purchase, closing inventory, gross profit            To formulate financial statement from incomplete records</p> <p><b>Resources needed:</b>            AS and A level Text book by David Hopkins and Harold Randall            Formulas            Topical questions</p>

Video explanations:

[www.youtube.com/watch?v=4lxORLTdk-c](http://www.youtube.com/watch?v=4lxORLTdk-c)

[www.youtube.com/watch?v=fyfW8YvYHy0](http://www.youtube.com/watch?v=fyfW8YvYHy0)

[www.youtube.com/watch?v=Fq9mqz1TbSw](http://www.youtube.com/watch?v=Fq9mqz1TbSw)

**Homework/Assignments:**

Textual Questions, Topical Questions from Save My Exams.

**Homework/Assignments:**

Topical questions

**BUSINESS**

**Topics:**

2.1 Human resource management (HRM)

2.1.2 Workforce planning

2.1.3 Recruitment and selection

**Learning Objectives;**

- To analyze the significance of Employment contracts
- To analyze the difference between redundancy (voluntary and involuntary) and dismissal (fair, unfair)
- To analyze the relationship between HRM, employee morale and welfare in a business including the concept of work-life balance
- To analyze the impact of diversity and equality in the workplace on a business
- To evaluate the impact of training and development on a business and Employee development to encourage intrapreneurship
- To evaluate the impact on employers and employees of trade union involvement in the workplace including their role in collective bargaining

**Resources needed:**

ISBN:9781108921220

[www.tes.co.uk/teaching-resource/Trade-Union-Roleplays-6111337/](http://www.tes.co.uk/teaching-resource/Trade-Union-Roleplays-6111337/)

Benefits of Labor-Management Collaboration – YouTube

**Homework/Assignments:**

Practice

9609/22 Nov 2019 Q1 job description

• 9609/22 Nov 2020 Q2 person specification

• 9609/21 Jun 2018 Q2 job advertisement

9609/33 May 2019 Q5

9609/13 Nov 2019 Q5a