

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM
LEARNING TRAILS

AY 2023-24: Term 1_ Week 10 (30th to 3rd November 2023)

GRADE 11

MATHEMATICS	IT
<p>Topics: CIRCULAR MEASURES</p> <p>Learning Objectives;</p> <ul style="list-style-type: none">• Understand the definition of a radian and use the relationship between degrees and radians.• Use the arc length $s = r\theta$ and sector area $A = \frac{1}{2}r^2\theta$ (where θ is measured in radian) formulae in solving problems. <p>Resources needed: Textbook, PPT, past papers CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Papers (cambridgepapers.net)</p> <p>Homework/Assignments: CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources Search Results (cambridgepapers.net)</p>	<p>Topics: Utility software. Custom-written software and off-the-shelf software.</p> <p>Learning Objectives;</p> <ul style="list-style-type: none">• Identify various types of utility software and their specific uses.• Analyze the advantages and disadvantages of using utility software.• Explore the importance of utility software in enhancing system performance and maintaining data integrity.• Identify the uses of custom written software and off-the-shelf software.• Analyze the advantages and disadvantages of using custom written software and off-the-shelf software.• Evaluate the factors to consider when deciding between custom written software and off-the-shelf software. <p>Resources needed: www.computerhope.com/jargon/u/utility.htm Text book, Past paper questions</p> <p>Homework/Assignments: Solve past paper questions. Assignment</p>

ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: الكناية</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> • أن يتعرف الكناية • أن يميز أنواع الكناية من غيرها من الصور البيانية • أن يوظف الكناية في نشاطه اللغوي <p>Resources needed:</p> <ul style="list-style-type: none"> • <u>الكتاب المدرسي</u> • <u>العرض التقديمي</u> • <u>منصة ألف</u> • <u>اختبار الكتروني</u> <p>Homework/Assignments:</p> <ul style="list-style-type: none"> • حل أسئلة منصة ألف 	<p>Topics: سباق الهجن</p> <p>Learning Objectives:</p> <p>يتعرف معنى سباق الهجن يستنتج أنواع السباقات المختلفة يتحدث عن تاريخ الهجن</p> <p>Resources needed:</p> <p>الكتاب العرض الانترنت</p> <p>Homework/Assignments:</p>
PHYSICS	BIOLOGY
<p>Topics: Forces, density and pressure</p> <p>Learning Objectives:</p> <p>4.1 Turning Effects of forces</p> <p>1 understand that the weight of an object may be taken as acting at a single point known as its centre of gravity</p> <p>2 define and apply the moment of a force</p> <p>3 understand that a couple is a pair of forces that acts to produce rotation only</p> <p>4 define and apply the torque of a couple</p> <p>Equilibrium of forces</p> <p>1 state and apply the principle of moments</p> <p>2 understand that, when there is no resultant force and no resultant torque, a system is in equilibrium</p> <p>3 use a vector triangle to represent coplanar forces in equilibrium</p> <p>Resources needed:</p> <p>www.s-cool.co.uk/a-level/physics Torque simulation: https://phet.colorado.edu/en/simulation/legacy/to</p>	<p>Topics: 4 Cell membranes and transport</p> <p>Learning Objectives:</p> <p>Describe the fluid mosaic model of membrane structure with reference to the hydrophobic and hydrophilic interactions that account for the formation of the phospholipid bilayer and the arrangement of proteins.</p> <p>Describe the arrangement of cholesterol, glycolipids and glycoproteins in cell surface membranes</p> <p>Resources needed:</p> <p>www.wisc-online.com/learn/natural-science/life-science/ap1101/construction-of-the-cell-membrane www.kscience.co.uk/animations/plasmolysis.html</p> <p>Homework/Assignments:</p> <p>Describe the roles of phospholipids, cholesterol, glycolipids, proteins and glycoproteins in cell surface membranes, with reference to stability,</p>

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The ramp simulation:
<https://phet.colorado.edu/en/simulation/legacy/the-ramp>
Balancing act simulation:
<https://phet.colorado.edu/en/simulation/balancing-act>

Homework/Assignments:

Practice sheet given from past papers

fluidity and permeability.

Solve the questions from the past papers and save my exams.

ISLAMIC ARABIC

ISLAMIC EDUCATION

Topics:

غزوة الأحزاب

Learning Objectives:

- أن يتلو الطالب الآيات الكريمة تلاوة صحيحة موجودة ويفسر الآيات تفسيراً إجمالياً مع معانيها ويستنتج بعض دلالات الآيات وأوضح المواقف الواردة

Resources needed:

الكتاب المدرسي
بوربوينت
أنشطة تعليمية
منصة ألف

Homework/Assignments:

- حل أنشطة الطالب
- حل أسئلة منصة ألف
- حفظ الآيات الكريمة

Topics:

SURAH AL AHZAB

Learning Objectives:

1. Evaluate the message of contained in the verses
2. Recite the verses while observing the rules of recitation.

Resources needed:

"Textbook
PowerPoint
Educational Activities

Homework/Assignments:

Student Activities,
Solving Questions from the Alf Platform"

CHEMISTRY

ACCOUNTING

Topics: States of Matter

Learning Objectives:

- 1 Explain the origin of pressure in a gas in terms of collisions between gas molecules and the wall of the container.
- 2 Understand that ideal gases have zero particle volume and no intermolecular forces of attraction.

Topics:

Analysis and communication of accounting information

Learning Objectives:

Candidates should have an understanding of: • how to calculate key accounting ratios to measure profitability, liquidity and efficiency: – profitability ratios: gross profit margin, mark-up, profit margin,

3 State and use the ideal gas equation $pV = nRT$ in calculations, including in the determination of M_r .

Resources needed:

There are video links and a graphical treatment of real and ideal gases: www.siyavula.com/read/science/grade-11/ideal-gases/07-ideal-gases-01#targetText=An%20ideal%20gas%20has%20identical,how%20real%20gases%20will%20behave.

Homework/Assignments:

Topical Questions from Save My Exams
Textual Questions

return on capital employed, expenses to revenue ratio (operating expenses to revenue ratio) – liquidity ratios: current ratio, acid test ratio – efficiency ratios: non-current asset turnover, trade receivables turnover (days), trade payables turnover (days), inventory turnover (days), rate of inventory turnover (times) • how to evaluate the profitability, liquidity and efficiency of an organisation by interpreting ratios • possible measures to improve the profitability, liquidity and efficiency of an organisation • the limitations of accounting information

Resources needed:

AS and A level Accounting by David Hopkins
Formula Sheet
Topical questions

Homework/Assignments:

Topical questions

BUSINESS

Topics:

- 1.5 Stakeholders in a business
- 1.5.2 The relative importance and influence of stakeholders on business activities

Learning Objectives;

- To analyse how and why a business needs to be accountable to its stakeholders
- To Analyse how conflict might arise from stakeholders having different aims and objectives
- To analyze how changing business objectives might affect its stakeholders
- To evaluate the impact of business decisions on stakeholders and their reactions

Resources needed:

ISBN:9781108921220
www.tutor2u.net/business/gcse/organisation_stakeholders_ethics.html
www.tutor2u.net/business/gcse/organisation_stakeholders_ethics.htm

Homework/Assignments:

Analyse, with examples, how stakeholder groups influence business decisions and how conflicting stakeholder needs can be resolved’.