

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM LEARNING TRAILS

AY 2023-24: TERM 1_WEEK 5 (25th TO 29th SEPTEMBER 2023)

GRADE 11	
MATHEMATICS	IT
Topics:	Topics:
Coordinate Geometry (CIRCLES)	Data processing and information:
Introduction to Statistical Thinking	Checking the accuracy of data.
Measures of location and Spread	Database
Learning Objectives:	
At the end of the lessons, students should be able	<u>Learning Objectives:</u>
to:	Describe Validation including: presence check,
• understand that the equation $(x-a)^2+(y-b)^2=r^2$	range check, type check, length check, format
represents the circle with centre (a, b) and radius r	check, check digit, lookup check, consistency
use algebraic methods to solve problems	check, limit check.
involving lines and circles	Verification including: visual checking and
understand the relationship between a graph and its associated algebraic agustion and use	double data entry, parity check, checksum, hash
and its associated algebraic equation and use the relationship between points of intersection	total, control total.
of graphs and solutions of equations to	Differentiate between validation and
determine the set of values of k for which the line $y = x + k$ intersects, touches or does not	verification.
meet a quadratic curve.	Define normalization.
select a suitable way of presenting raw	Describe the advantages and advantages of
statistical data, and discuss advantages and/or	normalization.
disadvantages that particular representations may have	Convert a table into third normal form.
draw and interpret stem-and-leaf diagrams, box-	
and-whisker plots, histograms and cumulative	Resources needed:
frequency graphs	To the d. Committee Tool about

 understand and use different measures of central tendency (mean, median, mode) and Dispersion (range, interquartile range, standard

deviation)

 use a cumulative frequency graph to estimate medians, quartiles, percentiles, the proportion of a distribution above (or below) a given value, or between two values Text book, Computer, Task sheet

http://www.teachict.com/as_a2_ict_new/ocr/ AS_G061/311_data_info_knowledge/static_dy namic_data/miniweb/index.htm













Resources needed:

P1 Textbook, S1 Textbook, PPTs

Homework/Assignments:

CAIE Mathematics: Topic-Wise Study Guides,

Questions, and Resources | Search Results

(cambridgepapers.net)

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Homework/Assignments:

Solve past paper questions

ADVANCED ARABIC

Topics:

بلاغة - التشبيه التمثيلي

Learning Objectives:

- أن يتعرف التشبيه التمثيلي •
- أن يحلل التشبيه التمثيلي موضحا مواطن الجمال وينتج حملا تتضمنه
- أن يتعرف المفاهيم البلاغية ويتذوقها ويوظفها في إنتاجه اللغوى

Resources needed:

- الكتاب المدرسي
- منصة ألف

العرض التقدمى •

Homework/Assignments:

- حل أسئلة الكتاب المدرسي
- حل أور اق العمل •
- حل أسئلة منصة ألف

GENERAL ARABIC

Topics:

هواية والدي

Learning Objectives:

يستمع ويفهم النص جيدا

يستخرج المفردات الجديدة ويكتب جملة عن كل كلمة

يتحدث عن هوايته المفضلة

Resources needed:

العرض التقديمي الكتاب المدرسي أوراق العمل

Homework/Assignments:

اكتب فقرة عن هوايتك الفضلة

PHYSICS

Topics:

Biological Molecules – Lipids and Proteins

Learning Objectives:

Topics:

Kinematics

- Solve problems using equations that represent uniformly accelerated motion in a straight line, including the motion of bodies falling in a uniform gravitational field without air resistance
- Describe an experiment to determine the

Learning Objectives:

Explain the meaning of the terms primary structure, secondary structure, tertiary structure and quaternary structure of proteins

BIOLOGY

Describe the structure of a molecule of haemoglobin













acceleration of free fall using a falling object

 Apply the indepth knowledge of horizontal component and vertical component of a projectile to solve qns thereby to calculate range, maximum height, time of flight etc

Resources needed:

Teacher notes and learner worksheets from the IoP on projectile motion:

https://spark.iop.org/episode-207-projectilemotion

Monkey and Hunter demonstration:

www.stem.org.uk/resources/elibrary/resource/2

7021/monkey-and-hunter

Pearls of Water demonstration:

www.stem.org.uk/resources/elibrary/resource/3

4375/pearls-water

https://spark.iop.org

Cambridge AS level Course Book

as an example of a globular protein, including the formation of its quaternary structure from two alpha (α) chains (α –globin), two beta (β) chains (β –globin) and a haem group

Resources needed:

www.biotopics.co.uk/as/lipidcondensation.html www.biologyreference.com/

Homework/Assignments:

Solve past paper questions from save my exams-Topic wise.

Homework/Assignments:

PP question for practice booklet-j2016-N2020

ISLAMIC ARABIC

Topics:

الاستعفاف

Learning Objectives:

. أن يبين المقصود بالاستعفاف

. أن يبين أثر الاستعفاف على الفرد والمجتمع

. أن يوضح مجالات الاستعفاف

أحرص على تمثل القيم والأخلاق الإسلامية

Resources needed:

الكتاب المدرسي

بوريوينت

أنشطى تعليمية

منصة ألف

Homework/Assignments:

- حل أنشطة الطالب
- حل أسئلة منصة ألف •

ISLAMIC EDUCATION

Topics:

Agl and Nagl (Reason & Revelation)

Learning Objectives:

- a. Understand the concept of Aql (Reason) and Naql (Revelation) in Islamic theology.
- b. Explore the relationship between reason and revelation in Islamic thought.
- c. Analyze the role of reason and revelation in acquiring knowledge and understanding religious teachings.

Resources needed:

- a. Quran.com and Hadith collection websites for easy access to relevant verses and narrations.
- b. Islamic educational apps or interactive websites that provide engaging content on Islamic theology.

Homework/Assignments:

Solve students' activities in textbook













CHEMISTRY	ACCOUNTING
Topics:	Topics:
Atomic Structure	Accounts of Limited Companies
<u>Learning Objectives:</u>	Learning Objectives:
Describe, Interpret and Predict what effect	To understand the terminologies related to limited
bonding and intermolecular bonding has on the	companies
properties of substance.	To formulate Income Statement of Limited
Practicals - To find percentage purity of iron.	Companies
Resources needed:	
Textbooks, Save my exams topical questions,	Resources needed:
Laboratory equipments.	AS and A Level Accounting by Harold Randall and
	David Hopkins
Homework/Assignments:	PPT, Task Sheets and MCQs
Textual end of the chapter questions and topical	
MCQs from save my exams.	Homework/Assignments:
	MCQs
	Read text book and prepare concept map on the
	topic and Topical questions

BUSINESS

Topics:

1.2.2 Business ownership

Learning Objectives:

To Understand the main features of different types of business ownership; sole traders, partnerships, private limited companies, public limited companies, franchises, co-operatives, joint ventures and social enterprises.

To Understand the appropriateness of different types of business ownership

Resources needed: ISBN:9781108921220

www.slideshare.net/mraali/difference-between-public-and-private-sector

Homework/Assignments:

Practice:

- 9609/23 Nov 2020 Braid Runner sole traders
- 9609/22 Mar 2017 Gourmet Ices partnerships
- 9609/22 Nov 2020 Energy Solutions private limited companies
- 9609/21 Nov 2020 Electric Cars public limited companies
- 9609/22 Jun 2018 Umpire Umbrellas franchises
- 9609/23 Jun 2019 First Nature co-operatives
- 9609/22 Jun 2019 Too Tasty joint ventures
- 9609/23 Nov 2019 U-Learn social enterprises





















