

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM LEARNING TRAILS

AY 2023-24: Term 1_Week 3 (11th TO 15th SEPTEMBER, 2023) GRADE 11

GRADE 11	
MATHEMATICS	IT
Topics:	Topics:
FUNCTIONS AND TRANSFORMATIONS	Data processing and information.
	Database and file concepts.
<u>Learning Objectives:</u>	
Understand the terms; function, domain,	<u>Learning Objectives:</u>
range, one-one function, inverse function and	Differentiate between data processing and
composition of functions.	information.
Understand how two functions can be	Describe Direct and indirect data sources.
combined to form a new composite function.	Analyze the advantages and disadvantages of direct
Identify the range of a given function in	and indirect data.
simple cases, and find the composition of two	Analyze the factors that affect the quality of
given functions	information.
Understand the concept of an inverse	Deswcribe three relationships: one-to-one, one-to-
function and be able to find an expression for	many and many-to-many.
it.	Create and interpret an entity relationship diagram.
determine whether or not a given function is	
one-one, and find the inverse of a one-one	Resources needed:
function in simple cases	Text book, Activity sheet, Past papers.
understand and use the transformations of	www.teach-
graph	ict.com/as_a2_ict_new/ocr/AS_G061/311_data_inf
	o knowledge/static dynamic data/miniweb/index.
Resources needed:	<u>htm</u>
"C:\Users\aboma\OneDrive\Desktop\TRANSFER\	
New folder\AS\2022-2023 AY\P1 PPTs\2.	Homework/Assignments:
FUNCTIONS AND TRANSFORMATIONS.pptx"	Past paper questions.
Homework/Assignments:	
CambridgePapers Search Results	
CambridgePapers Search Results	
CambridgePapers Search Results	













ADVANCED ARABIC

Topics:

قصة حادثة - نجيب محفوظ

Learning Objectives:

- أن يحدد الفكرة الرئيسة والتفاصيل المساندة التي تساهم في توضيح الفكرة الرئيسة
- أن يتتبع تقنية الوصف باستخدام الكاتب للتقنيات البلاغية ولابراز ما يصفه من شخصيات وأحداث وحالات شعورية
- أن يفسر المفردات الجديدة من خلال سياقاتها المختلفة
- أن يحلل رؤية الكاتب ويذكر رأيه فيها

Resources needed:

الكتاب المدرسي - منصة ألف - بوربوينت - أوراق عمل

Homework/Assignments:

- حل أسئلة الكتاب
- حل أسئلة منصة ألف
- اختبار الكترونى •

GENERAL ARABIC

Topics:

ابن بطوطة

Learning Objectives:

يتعرف المفردات الجديدة ببالنص

أن يوظف المفردات الجديدة في جمل من انشائه

يكتب فقرة عن ابن بطوطة Resources needed:

الكتاب المدرسي - العرض التقديمي - أوراق العمل

Homework/Assignments:

حل اسئلة الكتاب

حل أوراق العمل

PHYSICS

Physcs

physical quntities and units

Errors and uncertainties

Scalors and vectors

Learning Objectives:

Errors and Uncertainties

- 1.understand and explain the effects of systematic errors (including zero errors) and random errors in measurements.
- 2. understand the distinction between precision and accuracy
- 3. assess the uncertainty in a derived quantity by simple addition of absolute or percentage uncertainties

Scalars and Vectors

1 understand the difference between scalar and vector quantities and give examples of scalar and vector quantities included in the syllabus

2 add and subtract coplanar vectors

3 represent a vector as two perpendicular components

Resources needed:

Bull's-eye analogy of precision and accuracy:

Topics:

Biological Molecules

Carbohydrates & Lipids

Structure and function

Learning Objectives:

describe the formation of a glycosidic bond by condensation, with reference to disaccharides, including sucrose, and polysaccharides describe the molecular structure of the polysaccharide cellulose and outline how the arrangement of cellulose molecules contributes to the function of plant cell walls

BIOLOGY

Resources needed:

www.cellsalive.com/index.htm

www.vcbio.science.ru.nl/en/virtuallessons/#fese msimulatie

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

Homework/Assignments:

1.Describe the molecular structure of the polysaccharide cellulose and outline how the arrangement of cellulose molecules













www.mathsisfun.com/accuracy-precision.html

Absolute and percentage uncertainty notes and examples:

https://sciencing.com/how-to-calculateuncertainty-13710219.html

www.bellevuecollege.edu/physics/resources/mea sure-sigfigsintro/f-uncert-percent/

Absolute and percentage uncertainty video explanation:

https://studynova.com/lecture/physics/measure ment-and-uncertainty/absolute-fractional-

percentage-uncertainty/

Head to tail and parallelogram methods to calculate a resultant vector:

www.mathwarehouse.com/vectors/resultantwww.mathsisfun.com/algebra/vectors.html

https://spark.iop.org/episode-201-scalars-andvectors

https://phet.colorado.edu/en/simulation/vector-addition

www.physicsclassroom.com/Physics-Interactives/Vectors-and-Projectiles/Vector-Addition/Vector-Addition-Interactive

Homework/Assignments:

Cambridge papers – Past paper Booklet qns both MCQ and SQ from years 2016=2020

contributes to the function of plant cell walls

- 2.Relate the molecular structure of triglycerides to their functions in living organisms.
- 3. Solve Past paper Questions Topic wise

ISLAMIC ARABIC ISLAMIC EDUCATION

Topics:

الثبات على الحق Learning Objectives:

earning Objectives.

- أن يتلو الطالب الآيات الكريمة تلاوة صحيحة مجودة
 - ويفسر الآيات تفسيرا إجماليا مع معانيها •

ويستنتج بعض دلالات الايات واوضح المواقف الوارده

Resources needed:

Topics:

Surah Al-Ahzab

Steadfastness **Learning Objectives:**

Explain the meaning of the Quranic Ayah. Explain the story of battle of trench.

Resources needed:

Book, PPT, online sites,













الكتاب المدرسي البوربوينت منصة ألف

Homework/Assignments:

حل انشطة الطالب بالكتاب المدرسى حفظ الآيات الكريمة ومعاني الكلما

Homework/Assignments:

Solve student's activities in the book

CHEMISTRY

Topics: Atomic Structure

Learning Objectives:

1 understand the terms:

- shells, sub-shells and orbitals
- principal quantum number (n)
- ground state, limited to electronic configuration 2 describe the number of orbitals making up s, p and d sub-shells, and the number of electrons that can fill s, p and d sub-shells
- 3 describe the order of increasing energy of the sub-shells within the first three shells and the 4s and 4p sub-shells
- 4 describe the electronic configurations to include the number of electrons in each shell, sub-shell and orbital

Resources needed:

- 1) Save my exams topical Questions
- Cambridge International AS& A Level Chemistry, Student's Book

Homework/Assignments:

Topical questions on Moles, posted on Microsoft Teams

Topics:

Bank Reconciliation Statement

Learning Objectives:

Understand the use and purpose of a bank statement • Update the cash book for bank charges, bank interest paid and received, correction of errors, credit transfers, direct debits, dividends, and standing orders • Understand the purpose of and prepare a bank reconciliation statement to include bank errors, uncredited deposits and unpresented cheques

ACCOUNTING

Resources needed:

IGCSE Accounting by Catherine Coucom Formats Task Sheet

https://www.youtube.com/watch?v=gD1noSuX8VQ

www.igcseaccounts.com

Homework/Assignments:

Text book exercise questions













BUSINESS

Topics:

1.1 Enterprise

1.1.1 The nature of business activity

Learning Objectives:

To Understand the qualities entrepreneurs and intrapreneurs need for success To Understand the role of entrepreneurship in creating and starting up a business To Understand the role of intrapreneurship in the ongoing success of a business

Resources needed:

ISBN:9781108921220

www.tutor2u.net/blog/index.php/business-studies/comments/adding-value-creative-uses-of-a-aluminium-tray

www.unomaha.edu/college-of-business-administration/center-for-economic-education/teacher-resources/k-5/popcorn-economics.pdf.

https://keydifferences.com/difference-between-risk-and-uncertainty.html www.forbes.com/sites/ellevate/2019/10/24/eight-common-reasons-small-businesses-fail/?sh=55a2b3944fbb www.young-enterprise.org.uk/

Homework/Assignments:

Explain the growth of MNCs in UAE.

https://gulfbusiness.com/positive-power-multinational-cooperation/









