

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM

LEARNING TRAILS

AY 2023-24: Term 1_Week 13 (20th to 24th November 2023)

GRADE 12

MATHEMATICS	IT
<p>Topics: Chapter 5 : Integration</p> <p>Learning Objectives: To be able to integrate Trigonometric, Logarithmic & exponential functions. To be able to integrate, using Integration by parts, using partial function, Using substitution method. To be able to find the area under the curve. To be able to find the volume of revolution.</p> <p>Resources needed: Sample questions</p> <p>Homework/Assignments: Topical Past paper questions.</p>	<p>Topics: Chapter14: Communication technology Cloud computing: Characteristics of cloud computing. Uses of cloud computing. Data transmission across networks: Speed of transmission: bandwidth, bit rate. Data streaming.</p> <p>Learning Objectives: Analyze the suitability of cloud computing for different business requirements. Define and explain the concepts of bandwidth, bit rate, and data streaming. Understand the relationship between bandwidth and data transmission. Explore the uses and applications of data streaming. Describe the concepts of packet switching, circuit switching, and message switching. Compare and contrast the advantages and disadvantages of each method of sending data over a network. Analyze the factors that influence the choice of switching method in different network scenarios.</p> <p>Resources needed: Cambridge International AS and A level IT- course book. Videos</p> <p>Homework/Assignments: Solve past paper questions</p>

ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: ظن وأخواتها</p> <p>Learning Objectives: أن يعدد المتعلم ظن وأخواتها أن يحدد المتعلم عناصر جملة ظن أن يعرب المتعلم الجمل إعرابا صحيحا</p> <p>Resources needed: الكتاب المدرسي- العرض التقديمي - مقطع فيديو</p> <p>Homework/Assignments: حل تمارينات الدرس</p>	<p>Topics: مراجعة لامتحان الفصل الدراسي الأول</p> <p>Learning Objectives: أن يتذكر الطلاب معنى الانتماء للوطن أن يعدد الطلاب مزايا الانتماء للوطن أن يستنتج الطلاب المهارات النحوية واللغوية أن يحلل الطلاب الدرس تحليلاً صحيحاً</p> <p>Resources needed: أوراق عمل - كتاب الطالب - السبورة الذكية</p> <p>Homework/Assignments: أنشطة إلكترونية - ميكروسوفت فورم</p>
PHYSICS	BIOLOGY
<p>Topics: Magnetic field</p> <p>Learning Objectives: Should be able to Determine magnitude and direction of force on a conductor carrying current in a uniform magnetic field and the same on a moving charge in a uniform field. Explain working of current balance and Hall probe</p> <p>Resources needed: Copy book, calculator and stationeries</p> <p>Homework/Assignments: Topical paper – Capacitance</p>	<p>Topics: Inheritance</p> <p>Learning Objectives: Use genetic diagrams in both monohybrid and dihybrid crosses, to solve problem involving codominance, linkage, multiple alleles or gene interaction</p> <p>Resources needed: Text book, note book, Topical activity sheet to solve crosses ,stationary ,calculator</p> <p>Homework/Assignments: Read the text book Solve the given activity sheet</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: المسؤولية في الإسلام</p> <p>Learning Objectives:</p>	<p>Topics: Divine Laws</p> <p>Learning Objectives:</p>

أن يميز بين المسؤولية الفردية والجماعية
 أن يحدد نظرة الاسلام للمسؤولية والانسان
 أن يوضح مجالات المسؤولية الفردية
 أن يبين العلاقة بين المسؤولية الفردية والجماعية
 أن يمثل للمسؤولية الجماعية من مؤسسات المجتمع الاماراتي
 ويتحمل مسؤولية ما كلف به

Resources needed:

الكتاب المدرسي
 بوربوينت
 أنشطة تعليمية
 منصة ألف

Homework/Assignments:

- حل أنشطة الطالب
- حل أسئلة منصة ألف

- Understand the concept of Divine Laws in Islam.
- Identify and analyze the different types of Divine Laws.
- Apply the Divine Laws to real-life situations and make informed ethical decisions.

Resources needed:

- Apps: Islamic Legal Studies apps, Quran apps, Hadith apps.
- Links: Online resources such as reputable Islamic websites, academic journals, and video lectures

Homework/Assignments:

Solve students' activities in the textbook.
 Revise PPT

CHEMISTRY

Topics: 27

Group 2

Learning Objectives:

Similarities and trends in the properties of the Group 2 metals, magnesium to barium, and their compounds

Resources needed:

Topical questions
 Textbook
 Smartboard
 Whiteboard

Homework/Assignments:

Textbook questions

ACCOUNTING

Topics:

Analysis and Interpretation of ratios

Learning Objectives:

To calculate investment ratios
 To analyse the ratios for financial decision making

Resources needed:

AS and A Level Accounting by David Hopkins and Randall
 Formula Sheet
 Topical questions

Homework/Assignments:

Topical questions

BUSINESS

ECONOMICS

Topics:

7.3 Leadership

7.3.2 Theories of leadership

Learning Objectives:

To analyze the purpose of leadership

To analyze Leadership roles in business (directors, managers, supervisors, worker representatives)

To analyse the qualities of a good leader

To analyze Key leadership theories: trait, behavioral, contingency, power and influence and transformational.

To analyze the Goleman's four competencies of emotional intelligence: self-awareness, social awareness, self-management and social skills

Resources needed:

ISBN:9781108921220

www.mindtools.com/pages/article/leadership-theories.htm

Homework/Assignments:

Practice the related past papers.

Topics:

The labour market forces and government intervention

Learning Objectives:

To understand the meaning of demand for labour

To analyze the Marginal Revenue Product theory with the help of diagram

To analyze the factors affecting the position of the demand for labour curve

To understand the movement along the demand curve

Resources needed:

The Economics by Peter Smith

The past papers of AY 2023 with answer key

Homework/Assignments:

Prepare for the PT-2 on different market structures: Monopolistic competition and oligopoly. Go through the HOT questions with solutions.