

AL AIN JUNIORS SCHOOL- BRITISH SYSTEM
LEARNING TRAILS

AY 2023-24: Term 1_Week 12 (13th to 17th November 2023)

GRADE 10

ENGLISH	MATHEMATICS
<p>Topics: Listening, Reading and writing.</p> <p>Learning Objectives: Students will practice the exam style papers in order to achieve higher grades in their final IGCSE exams.</p> <p>Resources needed: Notebook, questions and exercises from the previous Past Papers</p> <p>Homework/Assignments: Speaking Notes preparation based on the speaking cards.</p>	<p>Topics: Vectors</p> <p>Learning Objectives: Addition and subtraction of vectors using nose-to-tail method Find the magnitude of a vector using Pythagoras's theorem Understand and use position vectors.</p> <p>Resources needed: Text book, Calculator, notebook</p> <p>Homework/Assignments: Daily Practice Questions, past papers, weekly test, textbook questions.</p>
ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: الصفة المشبهة</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">• أن يتعرف المتعلم الصفة المشبهة ويشتمها• أن يميز وظائفها النحوية المختلفة• أن يوظفها في مواقف حياتية <p>Resources needed:</p> <ul style="list-style-type: none">• الكتاب المدرسي• العرض التقديمي• منصة ألف• اختبار الكتروني <p>Homework/Assignments: حل أسئلة الكتاب المدرسي - حل أسئلة منصة ألف</p>	<p>Topics: الشغف بالعمل</p> <p>Learning Objectives: أن يتعرف الطالب المفردات الجديدة أن يذكر الطالب الفارق بين من يحب العمل ومن لا يحبه أن يرسم الطالب مخططاً للدرس أن يجيب الطالب عن الأسئلة</p> <p>Resources needed: الكتاب المدرسي _ بوربوينت _ أنشطة تعليمية</p> <p>Homework/Assignments: أن يكتب الطالب فقرة عن أهمية الشعور بالسعادة في العمل</p>

PHYSICS	BIOLOGY
<p>Topics: DC Motor Transformer</p> <p>Learning Objectives: Describe the operation of an electric motor, including the action of a split ring commutator. Describe the construction of a simple transformer with a soft iron core, as used for voltage transformations.</p> <p>Resources needed: Simulations Past paper questions Workbook</p> <p>Homework/Assignments: Workbook 18 D and 18E</p>	<p>Topics: 16.4 Sexual reproduction in humans</p> <p>Learning Objectives: Explain the adaptive features of sperm and egg. Compare male and female gametes in terms of: size, structure, motility and numbers State that in early development, the zygote forms an embryo state the functions of the following in the development of the fetus: umbilical cord, placenta, amniotic sac and amniotic fluid State that some pathogens and toxins can pass across the placenta and affect the fetus</p> <p>Resources needed: Videos, presentations, past papers, workbook.</p> <p>Homework/Assignments: Completion of diagrams and exercises in workbook.</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: مراحل جمع القرآن الكريم</p> <p>Learning Objectives: أن يوضح مراحل جمع القرآن الكريم- أن يقارن بين جهود أبي بكر الصديق وعثمان بن عفان في خدمة القرآن الكريم يبين دور الصحابة في خدمة القرآن الكريم</p> <p>Resources needed: الكتاب المدرسي بوربوينت أنشطة تعليمية منصة ألف</p> <p>Homework/Assignments:</p> <ul style="list-style-type: none"> حل أنشطة الطالب حل أسئلة منصة ألف 	<p>Topics: The Prophet's Sunnah</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> Understand the concept and significance of the Prophet's Sunnah. Explore various aspects of the Prophet's life and teachings. Apply the Sunnah of the Prophet in daily life. <p>Resources needed:</p> <ul style="list-style-type: none"> Islamic Apps: Recommend Islamic apps that provide access to Hadith collections and teachings of the Prophet. Online Resources: Provide links to reputable websites and online platforms that offer authentic information on the Prophet's Sunnah.

	<p><u>Homework/Assignments:</u></p> <p>Solve students' activities in the textbook. Revise PPT</p>
CHEMISTRY	ICT
<p><u>Topics:</u></p> <p>Chemical Reactions – Haber Process and Contact Process</p> <p><u>Learning Objectives:</u></p> <ul style="list-style-type: none"> • State the symbol equation for the production of ammonia in the Haber process. • State the sources of the hydrogen (methane) and nitrogen (air) in the Haber process. • State the typical conditions in the Haber process. • State the symbol equation for the conversion of sulfur dioxide to sulfur trioxide in the Contact process. • State the sources of the sulfur dioxide (burning sulfur or roasting sulfide ores) and oxygen (air) in the Contact process. • State the typical conditions for the conversion of sulfur dioxide to sulfur trioxide in the Contact process. • Explain, in terms of rate of reaction and position of equilibrium, why the typical conditions stated are used in the Haber process and in the Contact process. <p><u>Resources needed:</u></p> <p>Workbook, Textbook, The Periodic Table</p> <p><u>Homework/Assignments:</u></p> <p>Daily Questions, Weekly Assignment and past paper questions.</p>	<p><u>Topics:</u></p> <p>E-safety: Protection for data.</p> <p><u>Learning Objectives:</u></p> <ul style="list-style-type: none"> • Describe characteristics and methods of protecting data including biometrics, digital certificate, secure socket layer (SSL), encryption, firewall, two-factor authentication, user id and password. • Describe encryption including its purpose for the protection of data on hard discs, email, cloud, HTTPS websites Firewall including its purpose. • Describe Viruses and malware including how to take preventative action to avoid the danger of infecting a computer from a downloaded file. • Card fraud including shoulder surfing, card cloning, key logging. • Describe characteristics, uses, media, advantages and disadvantages of storage devices including magnetic, optical and solid-state <p><u>Resources needed:</u></p> <p>Text book, PPT, Task sheet</p> <p><u>Homework/Assignments:</u></p> <p>Solve past paper questions.</p>

ACCOUNTING	BUSINESS STUDIES
<p>Topics: Depreciation on disposal of non current asset</p> <p>Learning Objectives: To formulate ledger accounts to record depreciation of non-current assets</p> <p>Resources needed: IGCSE Accounting by Catherine Coucom Formats Topical questions</p> <p>Homework/Assignments: www.igcseaccounts.com Topical questions</p>	<p>Topics: 5.1.1The need for business finance 5.1.2The main sources of capital</p> <p>Learning Objective: To evaluate the need for business finance. To identify and explain the main sources of capital, and be able to select, recommend and select appropriate source of finance in given circumstance</p> <p>Resources needed: Cambridge IGCSE and O Level Business Studies: Coursebook ISBN 9781108563987 https://learning.cambridgeinternational.org/classroom/course/view.php?id=3375</p> <p>Homework/Assignments: Write answer: Evaluate whether a bank loan is preferable to venture capital to finance this new business start up</p>
ECONOMICS	
<p>Topics: Population</p> <p>Learning Objectives: Analyze the impact of population growth and demographics on economic development.</p> <p>Resources needed: https://www.youtube.com/watch?v=zTkqtjyWKCUC https://www.youtube.com/watch?v=ithdux1zRM https://www.youtube.com/watch?v=zVp9A4n8moY https://www.youtube.com/watch?v=HCK1msUw-cA https://www.youtube.com/watch?v=GFqZwQdlS6Q</p> <p>Homework/Assignments: Based on the videos summarise the topic</p>	