LEARNING TRAILS AY 2024-25

GRADE: 11   **TERM 1_WEEK 11 (4th November to 8th November 2024)**

Cycle Test Schedule –
Monday November 4th Physics/Business

IT	MATHEMATICS
Topics: Hardware and software: Utility software. Custom-written software and off-the-shelf software. User interfaces. **Learning Objectives:** Explain the need for utility software. Describe the uses of the different types of utility software. Analyze the advantages and disadvantages of different types of utility software. Differentiate between custom-written software and off-the-shelf software. Differentiate between Proprietary and open-source software. Describe different types of user interfaces. Analyze the advantages and disadvantages of different types of user interfaces. **Resources needed:** Text book, Smart board, activity sheets **Homework/Assignments:** Solve past paper questions from the topic.	**Topics:** **Trigonometry** **Learning Objectives:** • Use the identities $\tan\theta = \frac{\sin\theta}{\cos\theta}$ and $\sin^2\theta + \cos^2\theta = 1$ e.g. in proving identities, simplifying expressions and solving equations. • find all the solutions of simple trigonometrical equations lying in a specified interval e.g. solve $3\sin 2x + 1 = 0\ for\ -\pi < x < \pi$ and $3\sin^2\theta - 5\cos\theta - 1 = 0\ for\ 0° \leq \theta \leq 360°$ **Resources needed:** Smartboards, MS PPTs, Whiteboards and markers, ATS questions, Topics-wise questions from cambridgepapers.net **Homework/Assignments:** Search Results

ADVANCED ARABIC	GENERAL ARABIC

Topics:
الكناية
Learning Objectives:
أن يتعرف المتعلم الكناية
أن يحلل الكناية تحليلا صحيحا ويميز بينها وبين الاستعارة أن
ينتج جملا تتضمنها ويوظفها في جمل من إنشائه
Resources needed:
الكتاب المدرسي ـ العرض التقديمي ـ أنشطة تعليمية
Homework/Assignments:
حل أسئلة الكتاب المدرسي ـ حل أوراق العمل
	Topics:
	حماية البيئة
	Learning Objectives:
	
	1. **لقراءة والفهم**:
	  a. قراءة نصوص قصيرة حول أهمية البيئة وأضرار التلوث، واستخراج الأفكار الرئيسية.
	2. **الكتابة**:
	  a. كتابة فقرة قصيرة حول دورهم في حماية البيئة أو الخطوات التي يمكن اتخاذها للحد من التلوث.
	
	Resources needed:
	العرض التقديمي ـ أوراق عمل ـ الكتاب
	
	Homework/Assignments:
	
	رسم أو البحث عن صورة حول البيئة
	
	● *المطلوب*: إحضار صورة (من الإنترنت أو رسمها) تمثل أحد جوانب حماية البيئة، مثل شجرة، إعادة التدوير، أو الطاقة الشمسية. مع كتابة جملة أو جملتين تصف ما يوجد في الصورة ولماذا هو مهم للبيئة.
	● *الأهداف*: تعزيز الفهم البصري وتعزيز ارتباط الطلاب بالبيئة.

Physics	Biology

Topics:
Work power and energy
Learning Objectives:
  understand the concept of work, and recall and use
    work done = force × displacement in the direction of the force
  recall and apply the principle of conservation of energy
  recall and understand that the efficiency of a system is the ratio of useful energy output from the system to the total energy input
  use the concept of efficiency to solve problems
  define power as work done per unit time
  solve problems using $P = W/t$
  derive $P = Fv$ and use it to solve problems
Resources needed:
Copy Book. Course book, activity sheet, pictures
Electronic softboard
Homework/Assignments:
Activity sheet for work energy and power
https://spark.iop.org/episode-218-mechanical-power
 	
Work, energy and power:
https://studynova.com/lecture/physics/mechanics/work-energy-power/
	Topics: 4
	Cell Membrane and transport
	Learning Objectives:
	describe the roles of phospholipids, cholesterol, glycolipids,proteins and glycoproteins in cell surface membranes, with reference to stability, fluidity, permeability, transport, cell signalling and cell recognition.
	
	Resources needed:
	www.wisc-online.com/learn/natural-science/life-science/ap1101/construction-of-the-cell-membrane
	
	Homework/Assignments:
	
	Solve past paper questions 2019 –Paper 42
	Also,solve end of the topic questions.

CHEMISTRY	**ACCOUNTING**

Topics: Electro Chemistry Learning Objectives: **Understanding Redox Reactions**: Recognize and define oxidation, reduction, oxidizing agents, and reducing agents. Resources needed: **Online Resources:** - **Khan Academy**: Contains video lessons on redox reactions, electrode potentials, and electrolysis basics. - **Chemguide**: Detailed explanations of electrode potentials, electrolysis, and electrochemical cells. - **Physics and Maths Tutor (PMT)**: Past papers, topic-based questions, and mark schemes specific to the Cambridge A Level Chemistry syllabus. Homework/Assignments: Textual and Topical Questions	Topics: Accounts of limited Company –Statement of financial position Learning Objectives: To formulate Statement of financial position based on UK Companies Act **Resources needed:** Text book,PPT,format **Homework/Assignments:** Topical questions
ISLAMIC ARABIC	**ISLAMIC EDUCATION**
Topics: آداب الحوار **Learning Objectives:** أن يبين المقصود بأداب الحوار أن يعدد آداب الاستماع وفوائد الإصغاء **Resources needed:** الكتاب المدرسي البوربوينت أنشطة صفية **Homework/Assignments:** حل أنشطة الطالب بالكتاب المدرسي مراجعة البوريوينت للدرس	**Topics:** Manners of Dialogue **Learning Objectives:** - Define dialogue and its importance in Islamic teachings. - Identify different manners and etiquettes encouraged in dialogue within Islamic tradition. **Resources needed:**

Stories from the life of the Prophet (PBUH) and his companions, which highlight respectful and wise communication.

Homework/Assignments:
Choose a verse from the Quran related to respectful dialogue. Analyze its meaning and how it applies to daily interactions. Students can present this analysis in the next class.

ECONOMICS	BUSINESS
Topics: The Macro economy - Aggregate demand and aggregate supply Long run aggregate supply **Learning Objectives:** To understand the shape of the AD curve and what influences its position. To discuss the shape of the AS curve in the short and long run To distinguish between a movement and shifts in the AD and AS To analyze the equilibrium in the AS and AD curve **Resources needed:** Textbook Topical based questions **Homework/Assignments:** Topical questions will be given in teams	**Topics:** Marketing Mix **Learning Objectives:** To: • Analyse what the marketing mix means and what its key components are • Evaluate the importance of product decisions to a marketing mix • Use and apply product portfolio analysis • Analyse the stages of the product life cycle and evaluate its usefulness for marketing decisions • Apply the Boston Matrix analysis and evaluate the usefulness of it for marketing decisions **Resources needed:** E- Book- Uploaded in teams Text book Topical case studies with mark scheme uploaded in teams **Homework/Assignments:** **End of chapter questions**