LEARNING TRAILS AY 2024-25

GRADE: 12 **TERM 1_WEEK 5 (23rd to 27th September 2024)**

IT	MATHEMATICS
Topics: Graphics creation. System life cycle (Design phase) **Learning Objectives:** • Differentiate between bitmap graphics and vector graphics. • Describe the characteristics of a bitmap image. • Describe the characteristics of a vector image. Create a vector graphic that meets the requirements of its intended application and audience. • Construct DFD for a given system. • Differentiate between level 0 DFD and level1 DFD. • Construct system flowchart for a given system. **Resources needed:** Computer systems. Smart board. Activity sheets. **Homework/Assignments:** Solve past paper questions.	**Topics:** Algebra **Learning Objectives:** • To be able to solve Modular inequalities. • To be able to apply the knowledge of Remainder and Factor theorem. **Resources needed:** Sample questions, past paper questions. **Homework/Assignments:** TOPICAL PAST PAPER QUESTIONS.

ADVANCED ARABIC	GENERAL ARABIC
Topics: الجملة الاسمية **Learning Objectives:** أن يحدد المتعلم أركان الجملة الاسمية أن يتعرف المتعلم أشكال المبتدأ وأشكال الخبر أن يعرب المتعلم الجمل إعرابا صحيحا **Resources needed:** الكتاب المدرسي - الدفتر المدرسي - العرض التقديمي - السبورة الذكية **Homework/Assignments:** كتابة الموضوع الثالث المخصص لمهارة الكتابة	**Topics:** الدرس الثاني الوطن **Learning Objectives:** أن يحدد المتعلم الفكرة الرئيسة والفكر الفرعية للدرس أن يستنتج المتعلم أهمية الوطن أن يستخرج المتعلم المهارات النحوية واللغوية من الدرس أن يتحدث المتعلم عن الوطن **Resources needed:** الكتاب المدرسي - السبورة الذكية - العرض التقديمي **Homework/Assignments:** كتابة فقرة عن الوطن
PHYSICS	**BIOLOGY**
Topics: Temperature, Ideal Gases **Learning Objectives:** Should be able to Solve problems based on specific heat and latent heat capacity Define ideal gas and use ideal gas equation to solve problems Explain why gas exert pressure on the wall of container **Resources needed:** Calculator, copy book, sample questions, Wi-Fi connection, **Homework/Assignments:** Topical PAST exam papers -Temperature	**Topics:** Homeostasis **Learning Objectives:** -explain importance of homeostasis in mammals -explain the principles of homeostasis in terms of internal and external stimuli, receptors, coordination systems (nervous system and endocrine system), effectors (muscles and glands) and negative feedback -state that urea is produced in the liver from the deamination of excess amino acids describe the structure of the human kidney - Identify, in diagrams, photomicrographs and electron micrographs, the parts of a nephron describe and explain the formation of urine in the nephron, limited to: the formation of glomerular filtrate by ultrafiltration in the Bowman's capsule • selective reabsorption in the proximal convoluted tubule

	Resources needed: Calculator , Stationaries, text book, note book ,Wifi connections **Homework/Assignments:** Solve the topical questions given
CHEMISTRY	**ACCOUNTING**
Topics: 25.1 Acids and bases **Learning Objectives:** 1. understand and use the term solubility product, *K*sp 2. write an expression for *K*sp 3. calculate *K*sp from concentrations and vice versa 4. (a) understand and use the common ion effect to explain the different solubility of a compound in a solution containing a common ion (b) perform calculations using *K*sp values and concentration of a common ion **Resources needed:** Textbook, smartboard, calculators, pastpapers **Homework/Assignments:**	**Topics:** Investment appraisal **Learning Objectives:** To appraise capital investment projects using ARR,Payback,NPV,IRR **Resources needed:** Topical questions Video Formula Sheet **Homework/Assignments:** Topical questions
ISLAMIC ARABIC	**ISLAMIC EDUCATION**
Topics: التطرف **Learning Objectives:** أن يبين المقصود بالتطرف أن يوضح موقف الاسلام من التطرف أن يستنبط الحكمة من التطرف أن يحدد أسباب التطرف وآثاره أن يبرهن على شبهات المتطرفين وينبذه	**Topics:** Methods of Qur'anic Exegesis **Learning Objectives:** **Understand the different methods** of interpreting the Qur'an (Tafsir bi'l-Riwaya and Tafsir bi'l-Ra'y). **Recognize the significance** of Qur'anic exegesis in understanding the deeper meanings of the Qur'an. **Resources needed:**

Resources needed: الكتاب المدرسي البوربوينت أنشطة صفيةة **Homework/Assignments:** حل أنشطة الطالب بالكتاب المدرسي مراجعة البوربوينت للدرس	**The Study Quran** - English commentary for deeper insights. **Lecture notes/worksheets** summarizing the major methods of tafsir. **Homework/Assignments:** Select an ayah (verse) and compare interpretations using both Tafsir bi'l-Riwaya and Tafsir bi'l-Ra'y methods.

BUSINESS

Topics:
Business strategy

Learning Objectives:
To evaluate approaches to developing business strategies including blue ocean strategy, scenario planning, SWOT analysis, PEST analysis, Porter's five forces, the core competence framework, the Ansoff matrix, force-field analysis and decision trees.

Resources needed:
Textbook
Case studies of strategic decision

Homework/Assignments:
Practicing topical case studies- uploaded in teams