



LEARNING TRAILS AY 2024-25

GRADE: 12

TERM 2_WEEK 6 (10th February to 14th February 2025)

IT	MATHEMATICS
<p><u>Topics:</u> Project management: The stages of the project life cycle Project management software. Programming for the web.</p> <p><u>Learning Objectives:</u> Describe types of project management software, including: desktop, web-based, mobile, personal, single-user, collaborative. Describe uses for supporting projects, including: supporting planning –scheduling of tasks – allocation of resources –costings –communication – collaborative working and decisions. Analyze advantages and disadvantages of project management software. JavaScript loops for iterative methods, including: <ul style="list-style-type: none"> ○ for/in loop ○ while loop ○ do/while loop </p> <p><u>Resources needed:</u> PPT, Video, task sheets, computer systems</p> <p><u>Homework/Assignments:</u> Solve past paper questions.</p>	<p><u>Topics:</u> COMPLEX NUMBERS</p> <p><u>Learning Objectives:</u> Understand the idea of complex numbers, recall the meaning of the terms real part, imaginary parts, modulus, argument, conjugate, equal complex numbers Carry out addition ,subtraction, multiplication, division of complex numbers , cartesian form $x+iy$ Representing complex number geometrically in Argand diagram Express complex number in polar form Finding square root of complex number</p> <p><u>Resources needed:</u> Text book , past papers</p> <p><u>Homework/Assignments:</u> Related past paper questions</p>



ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: قصة السماور</p> <p>Learning Objectives: أن يتتبع المتعلم الأثر الذي يتركه أسلوب الكاتب واستخدامه لبعض التقنيات البلاغية لايصال الفكرة والتأثير في القارئ أن يحدد المتعلم جوانب معينة في النصوص الأدبية ويفهمها ويحلل عناصر النص</p> <p>Resources needed: الكتاب المدرسي - السبورة الذكية - العرض التقديمي</p> <p>Homework/Assignments: حل تمارينات الدرس</p>	<p>Topics: الرياضة</p> <p>Learning Objectives: <u>أن يتعرف المتعلم المفردات الجديدة</u> <u>أن يحلل المتعلم الدرس تحليلا لغويا صحيحا</u> <u>أن يستنتج المتعلم أهمية الرياضة</u> <u>أن يكتب فقرة عن الرياضة</u></p> <p>Resources needed: <u>الكتاب - العرض التقديمي - السبورة الذكية</u></p> <p>Homework/Assignments: <u>كتابة فقرة عن أهمية الرياضة</u></p>
PHYSICS	BIOLOGY
<p>Topics: Astronomy and cosmology</p> <p>Learning Objectives: Should be able to Define luminosity, radiant flux intensity State and apply Wien's displacement law and Stefan's law Describe red shift and Hubble's law</p> <p>Resources needed: Visuals – ppt /video, sample questions</p> <p>Homework/Assignments: Topical Past paper questions</p>	<p>Topics: Classification ,Biodiversity &Conservation</p> <p>Learning Objectives: Outline reasons for the need to maintain biodiversity Outline the roles of zoos, botanic gardens, conserved areas Describe methods of assisted reproduction used in the conservation of endangered mammals Explain reasons for controlling invasive alien species</p> <p>Resources needed: Activity sheet ,Video ,Calculator ,stationaries</p> <p>Homework/Assignments: Solve the activity sheet</p>



CHEMISTRY	ACCOUNTING
<p>Topics: 37.3 Carbon-13 NMR spectroscopy</p> <p>Learning Objectives: Analyse and interpret a carbon-13 NMR spectrum of a simple molecule to deduce: (b) the different environments of the carbon atoms present (b) the possible structures for the molecule predict or explain the number of peaks in a carbon-13 NMR spectrum for a given molecule</p> <p>Resources needed: <u>Smartboards, textbooks, pastpapers</u></p> <p>Homework/Assignments: Textbook question</p>	<p>Topics: ABC Costing</p> <p>Learning Objectives: To calculate the cost under ABC Costing and analyse the cost and profit under absorption and marginal costing</p> <p>Resources needed: Text book Task Sheet Formulas and Formats</p> <p>Homework/Assignments: Topical questions</p>
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: <u>الزواج طريق الاستعفاف</u></p> <p>Learning Objectives: أن يتلو الطلاب الآيات الكريمة تلاوة مجودة وصحيحة أن يفسر الطلاب معاني المفردات القرآنية أن يحلل الطلاب بعض دلالات الآيات الكريمة</p> <p>Resources needed: الكتاب المدرسي العرض التقديمي الشبكة العنكبوتية السيبورة الذكية</p> <p>Homework/Assignments: حفظ الآيات الكريمة حل أنشطة الكتاب المدرسي مراجعة العرض التقديمي للدرس</p>	<p>Topics: Marriage: The Path to Chastity</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">• Students should recite the noble verses with proper Tajweed and accuracy.• Students should interpret the meanings of Quranic vocabulary.• Students should analyze some of the implications of the noble verses. <p>Resources Needed:</p> <ul style="list-style-type: none">• Textbook• Presentation• Internet• Smartboard



Homework/Assignments:

- Memorize the noble verses.
- Solve the textbook activities.
- Review the lesson presentation.

BUSINESS

Topics:

Investment Appraisal

Learning Objectives:

To calculate Pay back method, Cash flow and NPV

To evaluate the results of Investment Appraisal Methods and take appropriate investment decisions.

Resources needed:

E book, Topical case studies

Homework/Assignments:

Practicing Past papers.