



LEARNING TRAILS AY 2026-27

YEAR: 13

TERM 1_WEEK 3 (Sep 14th -18th, 2026)

IT	MATHEMATICS
Topics: System liofe cycle : Design stage: Learning Objectives: Describe the components of Data flow diagrams (DFD), level 0 (context-level), level 1 and level 2 diagrams. construct a system flowchart and a data flow diagram (DFD) using correct symbols (see symbols at the end of the 'Subject content' section. Describe the features of Input forms. Resources needed: Textbook, PPT, Video, Task sheet Homework/Assignments: Homework/Assignments: Solve past paper questions.	Topics: Partial Fractions Learning Objectives: - recall an appropriate form for expressing rational functions in partial fractions, and carry out the decomposition, in cases where the denominator is no more complicated than $-(ax + b)(cx + d)(ex + f)$ $-(ax + b)(cx + d)^2$ $-(ax + b)(cx^2 + d)$ - use the expansion of $(1 + x)^n$, where n is a rational number and $x < 1$. Resources needed: Smartboards, Markers, Topical past paper questions, Textbook Partial Fractions Pure Mathematics 3 A Level 9709 Partial Fractions and Binomial Expansion P3 A Level 9709 Homework/Assignments: Partial Fractions Pure Mathematics 3 A Level 9709 Binomial Expansions Pure Mathematics 3 A Level 9709



ADVANCED ARABIC	GENERAL ARABIC
Topics: قصيدة أرق على أرق Learning Objectives: <u>أن يفسر المتعلم المفردات الجديدة موظفاً بعضها في جمل مفيدة</u> <u>أن يحدد المتعلم الفكرة الرئيسية والأفكار الفرعية للأبيات</u> <u>أن يحلل المتعلم النص تحليلاً أدبياً مبيناً التعبيرات البلاغية والإيحائية في النص</u> <u>أن يشرح المتعلم المعنى الإجمالي للنص</u> Resources needed: الكتاب المدرسي - السبورة الذكية - بوربوينت - دفتر الطالب Homework/Assignments: <u>اكتب فقرة عن ازدهار العلم والأدب في الدولة العباسية</u>	Topics: نص معلوماتي درس خليفة سات Learning Objectives: 1- أن يحدد المتعلم الفكرة الرئيسية والأفكار الفرعية للنص 2- أن يوضح المتعلم أهمية الأقمار الصناعية في حياة الناس 3- أن يحلل المتعلم النص تحليلاً لغوياً صحيحاً 4- أن يتحدث المتعلم عن مركز محمد بن راشد للفضاء Resources needed: كتاب الطالب - أوراق عمل - العرض التقديمي - السبورة الذكية Homework/Assignments: كتابة فقرة عن التكنولوجيا الحديثة وتأثيرها على الفرد والمجتمع
BIOLOGY	CHEMISTRY
Topics: Photosynthesis Learning Objectives: 1. Describe the relationship between the structure of chloroplasts, and their function 2. Explain light independent and light dependent stages of photosynthesis 3. state that within a chloroplast, the thylakoids (thylakoid membranes and thylakoid spaces) are the site of the light-dependent stage and the stroma is the site of the light-independent stage 4. Describe the role of chloroplast pigments (chlorophyll a, chlorophyll b, carotene and xanthophyll) in light absorption in thylakoids 5. Interpret absorption spectra of chloroplast pigments and action spectra for photosynthesis	Topics: 25 <u>Equilibria</u> Learning Objectives: <u>* calculate the pH of buffer solutions, given appropriate data</u> <u>* understand and use the term solubility product, K_{sp}</u> <u>* write an expression for K_{sp}</u> Resources needed: Homework/Assignments: <u>Textbook and past paper questions</u>



6. Describe how chromatography is used to separate and identify chloroplast pigments. 7. State that cyclic photophosphorylation and non-cyclic photophosphorylation occur during the light-dependent stage of photosynthesis <u>Resources needed:</u> Text book, Power-point, Videos, Images, save my exam website. <u>Homework/Assignments:</u> Solve the given Topical questions	
ACCOUNTING	ECONOMICS
<u>Topics:</u> Functional Budgets <u>Learning Objectives:</u> To formulate various functional budgets_ budgets: – sales – production – purchases – labour – trade receivables – trade payables <u>Resources needed:</u> Text book Formats Topical questions <u>Homework/Assignments:</u> Topical questions	<u>Topics:</u> Efficiency and market failure, Private costs and benefits <u>Learning Objectives:</u> To explain the conditions needed for productive efficiency and allocative efficiency To explain pareto optimality To define the meaning of market failure To explain the reasons for market failure To define the meaning of negative externality and a positive externality To discuss the types of costs and benefits <u>Resources needed:</u> Text book Past paper questions / marking scheme <u>Homework/Assignments:</u> Topical questions
ISLAMIC ARABIC	ISLAMIC EDUCATION
<u>Topics:</u> وقاية المجتمع من الجرائم (سورة النور) 1-10 <u>Learning Objectives:</u> أن يتلو الآيات تلاوة صحيحة مجودة أن يفسر الآيات تفسيراً إجمالياً	<u>Topics:</u> Protecting Society from Crime (Surah An-Nur 24:1–10) <u>Learning Objectives:</u>



أن يتعرف تشديد الإسلام على عقوبة الزنى أن يبين الآثار المترتبة عليها

Resources needed:

- القرآن الكريم.
- الكتاب المدرسي.
- السبورة الذكية وجهاز العرض.
- بطاقات تدريب على أحكام التجويد.
- أوراق عمل للتدريب على التلاوة.

Homework/Assignments:

التدرب على تلاوة الآيات في المنزل تلاوة صحيحة

. حفظ الآيات الكريمة محل الدرس

- Recite the assigned Qur'anic verses correctly while applying the rules of **Tajweed**.
- Explain the general meaning and interpretation of the verses.
- Recognize Islam's emphasis on the punishment for **zina (unlawful sexual relations)** and explain the wisdom behind it.
- Describe the individual and social consequences of zina and its impact on society.

Resources needed:

- The Holy Qur'an
- Student Textbook
- Interactive Whiteboard and Projector
- Tajweed Practice Cards
- Recitation Practice Worksheets

Homework/Assignments:

- Memorize the assigned Qur'anic verses covered in the lesson.
- Practice reciting the assigned verses at home with correct Tajweed.

BUSINESS

Topics:

6.1.2 Economic Influences on Business activity

Learning Objectives:

To evaluate How macroeconomic objectives and performance of an economy can have an impact on business activity

To evaluate Government policies used to achieve macroeconomic objectives: monetary, fiscal, supply-side and exchange rate policies

To evaluate the impact of changes in these government policies on business and business decisions

Resources needed:



Text book, Topical case studies

Homework/Assignments:

Practice end of chapter questions