



LEARNING TRAILS AY 2026-27

YEAR: 13

TERM 1_WEEK 5(Sep 28th -2nd Oct , 2026)

IT	MATHEMATICS
Topics: System life cycle (continued): Development and testing. Learning Objectives: Describe the need for testing and the purpose of a test plan. Create a test plan for a given situation. Describe different types of test data and its purpose. Differentiate between black box testing and white box testing. Differentiate between alpha testing and beta testing. Describe the advantages and disadvantages of different types of testing. Resources needed: Textbook, Smartboard, Whiteboard, Computer system, topical past paper questions Homework/Assignments: Solve past paper questions.	Topics: The Poisson distribution Learning Objectives: The students shall be able to: • use formulae to calculate probabilities for the distribution • use the fact that if $X \sim Po(\lambda)$ then the mean and variance of X are each equal to λ • understand the relevance of the Poisson distribution to the distribution of random events, and use the Poisson distribution as a model • use the Poisson distribution as an approximation to the binomial distribution where appropriate • Use the normal distribution, with continuity correction, as an approximation to the Poisson distribution where appropriate. Resources needed: Textbook, Smartboard, Whiteboard, Calculators, MF19 data booklet, topical past paper questions Homework/Assignments: Poisson Distribution Cambridge (CIE) A Level Maths: Probability & Statistics 2 Exam Questions & Answers 2021 [PDF]



ADVANCED ARABIC	GENERAL ARABIC
Topics: كان وأخواتها Learning Objectives: <u>أن يعرف المتعلم كان وأخواتها ويدرك معناها ووظيفتها في الجملة</u> <u>أن يستخرج المتعلم اسم كان وخبرها من الجملة</u> <u>أن يوظف المتعلم كان وأخواتها في جمل من إنشائه</u> <u>أن يعرب المتعلم اسم كان وأخواتها في جمل من إنشائه</u> <u>أن يحول المتعلم الجملة الاسمية إلى جملة تدخل عليها كان وأخواتها</u> Resources needed: <u>الكتاب المدرسي - السبورة الذكية - بوربوينت - دفتر الطالب</u> Homework/Assignments: <u>كتابة فقرة عن انجازات دولة الإمارات موظفا كان وأخواتها</u>	Topics: حالات الفعل المضارع Learning Objectives: أن يتعرف المتعلم على علامات إعراب الفعل المضارع أن يحدد المتعلم أدوات نصب الفعل المضارع أن يكتب المتعلم الفعل المضارع المنصوب في جمل مفيدة أن يستخرج المتعلم الفعل المضارع المنصوب من جمل معطاة Resources needed: كتاب الطالب - العرض التقديمي - السبورة الذكية Homework/Assignments: كتابة فقرة عن أهمية الانتماء إلى الوطن
PHYSICS	BIOLOGY
Topics: Temperature Learning Objectives: Should be able to Describe thermal equilibrium Identify thermometric properties that varies with temperature in different thermometers Define specific and latent heat capacity and apply ideas to solve problems. Resources needed: Calculator, copy book, sample questions Homework/Assignments: Topical past papers – Gravitational field	Topics: Homeostasis Learning Objectives: 1.State that urea is produced in the liver from the deamination of excess amino acids 2. Describe the structure of the human kidney. 3.Identify, in diagrams, photomicrographs and electron micrographs, the parts of a nephron and its associated blood vessels and structures. 4. Describe and explain the formation of urine in the nephron. 5. Describe the roles of the hypothalamus, posterior pituitary gland, antidiuretic hormone (ADH), aquaporins, and collecting ducts in osmoregulation. Resources needed: PPT, smartboard, laptop, Topical past papers 9700/42, smart, images , text book Homework/Assignments: Practice topical questions form past paper 9700/42



CHEMISTRY	ACCOUNTING
Topics: T24 Electrochemistry 24.2 Standard electrode potentials $E^\ominus$, standard cell potentials $E^\ominus$ cell and the Nernst equation Learning Objectives: * calculate a standard cell potential by combining two standard electrode potentials * use standard cell potentials to: (a) deduce the polarity of each electrode and hence explain/deduce the direction of electron flow in the external circuit of a simple cell (b) predict the feasibility of a reaction * deduce from $E^\ominus$ values the relative reactivity of elements, compounds and ions as oxidising agents or as reducing agents * construct redox equations using the relevant half-equations Resources needed: Past papers, textbook, data booklet, calculators, smart boards. Homework/Assignments: Past paper questions	Topics: Investment Appraisal Learning Objectives: Appraise investment projects based on ARR and Payback period . Resources needed: Task Sheet Text Book Topical questions Homework/Assignments: Topical questions
ISLAMIC ARABIC	ISLAMIC EDUCATION
Topics: التطرف Learning Objectives: أن يبين المقصود بالتطرف أن يوضح موقف الاسلام من التطرف أن يستنتج الحكمة من التطرف أن يحدد أسباب التطرف وآثاره أن يبرهن على شبهات المتطرفين وينبذه Resources needed: • كتاب التربية الإسلامية.	Topics: Extremism (التطرف) Learning Objectives: • To explain the meaning of extremism. • To explain Islam's position on extremism. • To infer the wisdom behind Islam's rejection of extremism. • To identify the causes and effects of extremism.



• القرآن الكريم. • السبورة والعرض التقديمي (PowerPoint). • جدول للمقارنة / بطاقات تعليمية. • أوراق عمل وأنشطة صفية. • فيديو تعليمي قصير. <u>Homework/Assignments:</u> إكمال أنشطة الكتاب المدرسي المتعلقة بالدرس	• To respond to the misconceptions and arguments used by extremists and reject them. <u>Resources needed:</u> • Islamic Education textbook. • The Holy Qur'an. • Whiteboard and PowerPoint presentation. • Comparison chart / educational cards. • Worksheets and classroom activities. • Short educational video. <u>Homework/Assignments:</u> Complete the textbook activities related to the lesson.
BUSINESS	ECONOMICS
<u>Topics:</u> 6.2 Business strategy 6.2.1 Developing business strateg <u>Learning Objectives:</u> To analyze the meaning and purpose of business strategy To analyze the meaning and purpose of strategic management: analysis, choice and implementation To apply Approaches to develop business strategy, including: – blue ocean strategy – scenario planning – SWOT analysis – PEST analysis – Porter's five forces – core competence framework – Ansoff matrix	<u>Topics:</u> Private costs and benefits , Types of cost <u>Learning Objectives:</u> To analyse the cost benefit analysis To explain the short run production function To calculate the total product , average product and marginal product To calculate fixed cost <u>Resources needed:</u> Past paper Task sheet Topical questions <u>Homework/Assignments:</u> Topical questions



– force field analysis

– decision trees

Resources needed:

Case studies with mark scheme

Homework/Assignments:

Topical past papers.