MATHEMATICS	IT
Topics: THE NORMAL DISTRIBUTION $X \sim N(\mu, \sigma^2)$ **Learning Objectives:** • recall conditions under which the normal distribution can be used as an approximation to the binomial distribution and use this approximation with a continuity correction in solving problems with n sufficiently large to ensure that both np > 5 and nq > 5. **Resources needed:** Textbook, Smartboards CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources | Search Results (cambridgepapers.net) **Homework/Assignments:** CAIE Mathematics: Topic-Wise Study Guides, Questions, and Resources | Search Results (cambridgepapers.net)	**Topics:** Expert systems. Relational database. **Learning Objectives:** Describe how expert systems are used to produce possible solutions for different scenarios. Describe components including user interface, inference engine, knowledge base (as a database of facts and rules base), explanation system, knowledge base editor. Design entity relationship diagram for a database. **Resources needed:** Text book, computer, past paper questions. **Homework/Assignments:** Assignment, Solve past paper questions.
ADVANCED ARABIC	**GENERAL ARABIC**
Topics: النداء **Learning Objectives:** • أن يتعرف المتعلم جملة النداء وأدواتها • أن يعرب جملة النداء إعرابا صحيحا • أن يوظف النداء في مواقف حياتية **Resources needed:** • الكتاب المدرسي ـ بوربوبينت ـ منصة ألف ـ اختبار الكتروني **Homework/Assignments:** • حل أسئلة منصة ألف	**Topics:** **Learning Objectives:** **Resources needed:** **Homework/Assignments:**

PHYSICS	BIOLOGY
Topics: <u>Waves</u> **Objectives** • Demonstrate knowledge of the mathematical relationship between wavelength, distance between sources (a), and the distance to the screen (D) in double-slit interference using light. • Recall and use the equation $d \sin \theta = n\lambda$, where d represents the spacing between the lines of the diffraction grating, θ represents the angle of diffraction, n represents the order of the interference fringe, and λ represents the wavelength of light. • Describe the process of using a diffraction grating to determine the wavelength of light: • Explain the setup of the experiment, including the diffraction grating, a light source, and a screen or detector. • Discuss the observation of the interference pattern formed on the screen or detector. **Resources needed:** Text Book, past papers, Task sheet, Animations, videos **Homework/Assignments:** *Practice Booklet[2016-2020] both MCQ and SQ*	**Topics:** Unit10: Infectious diseases **Learning Objectives:** • explain how cholera, malaria, TB and HIV are transmitted • discuss the biological, social and economic factors that need to • be considered in the prevention and control of cholera, malaria,TB and HIV **Resources needed:** www.meddean.luc.edu/lumen/MedEd/Histo/frames/Histo15.html www.anatomyatlases.org/MicroscopicAnatomy/Section11/Section11.shtml **Text book ,Past Papers** **Homework/Assignments:** Solve Past Paper May/June & Oct/Nov- 2023 – Paper 22 – topic Gas Exchange
ISLAMIC ARABIC	**ISLAMIC EDUCATION**
Topics: <u>المتودر والآحاد</u> **Learning Objectives:** <u>أن يفرق بين الحيث المتواتر والحديث الآحاد</u> <u>- يستنبط شروط الحديث المتواتر</u> <u>- يميز بين أنواع الحديث الآحاد</u> **Resources needed:**	**Topics:** Mutawatir and Ahaad **Learning Objectives:** Explain the Hadith Mutawatir and Ahaad. Discuss different types of mutawatir and ahaad **Resources needed:** Board, projector, marker, textbook **Homework/Assignments:**

الكتاب المدرسي بوربوينت أنشطة تعليمية منصة ألف **Homework/Assignments:** - حل أنشطة الطالب - حل أسئلة منصة ألف	Solve students' activity in textbook

CHEMISTRY	ACCOUNTING
Topics: Hydroxy Compounds **Learning Objectives:** - classify alcohols as primary, secondary and tertiary alcohols, to include examples with more than one alcohol group - state characteristic distinguishing reactions, e.g. mild oxidation with acidified $K_2Cr_2O_7$, colour change from orange to green - deduce the presence of a $CH_3CH(OH)-$ group in an alcohol, $CH_3CH(OH)-R$, from its reaction with alkaline $I_2(aq)$ to form a yellow precipitate of tri-iodomethane and an ion, RCO_2- - explain the acidity of alcohols compared with water **Resources needed:** Textbook, Microsoft Teams Forms **Homework/Assignments:** *Textual Questions and Topical Questions from Save My Exams*	**Topics:** MCQ –9706 Paper 12 **Learning Objectives:** To apply the concepts in solving MCQs Resources needed: MCQ sheets **Homework/Assignments:** Read the text book and complete concept maps of Financial Accounting topics

BUSINESS
Topics: **Budgets** **Learning Objectives:** To analyse the benefits of setting budgets To examine the importance of types of budgeting: incremental, zero and flexible To analyse the potential limitations of budgeting **Resources needed:** Text book Case studies **Homework/Assignments:** Solve end of chapter questions.