



LEARNING TRAILS AY 2026-27

YEAR: 11

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

ENGLISH	MATHEMATICS
Topics: Email Writing Learning Objectives: - Write an informal email for a given purpose, audience, and context. - Use the correct layout and conventions for email and informal letter writing. - Maintain an appropriate and consistent informal or semi-formal register. - Develop content that is relevant, engaging, and fully addresses the task. - Use a range of informal language features accurately. Resources needed: PPT/Worksheets/ Weblinks/ Past Papers/ Cambridge Syllabus 2027-'29 Homework/Assignments: Worksheets connecting to the topic.	Topics: Trigonometry 1 Learning Objectives: Solve simple trigonometric problems in three dimensions, including finding the angle between a line and a plane. • Understand and apply the sine and cosine functions for angles between 0° and 360°. • Solve problems using the sine and cosine rules for any triangle. • Use the sine rule to find the area of a triangle. Resources needed: Textbooks or educational websites with lessons, examples, and practice problems related to trigonometry in three dimensions, bearings, and the sine and cosine rules. https://cdn.savemyexams.co.uk/wp-content/uploads/2020/01/E6.5-3D-Pythagoras- - SOHCAHTOA-2B-Topic-Booklet-2_1.pdf Homework/Assignments: • Solve 5 questions daily provided by the mathematics teacher. • A weekly test will be conducted on a day when students have two Mathematics periods. • A past examination paper will be shared every week on Friday and must be completed and submitted on Monday, the first school day of the week.



ADVANCED ARABIC	GENERAL ARABIC
Topics: <u>قصة الخبز</u> Learning Objectives: <u>أن يحدد المتعلم الفكرة الرئيسية والأفكار الفرعية في القصة</u> <u>أن يفسر المتعلم المفردات والتراكيب الجديدة الواردة في النص</u> <u>ويوظفها في جمل مفيدة</u> <u>أن يستنتج المتعلم الدروس والقيم المستفادة من أحداث القصة</u> <u>أن يلخص المتعلم القصة بأسلوبه الخاص</u> Resources needed: الكتاب المدرسي - البوربوينت - السبورة الذكية - دفتر الطالب Homework/Assignments: كتابة استجابة أدبية لقصة الخبز	Topics: <u>قدوتي</u> Learning Objectives: • أن يقرأ الطالب النص قراءة صحيحة. • أن يتعرف الطالب المفردات الجديدة في النص. • أن يحدد الطالب الفكرة العامة للنص. • أن يستخرج الطالب معلومات بسيطة من النص. • أن يجيب الطالب عن أسئلة مباشرة حول النص. • أن يكتب الطالب جملاً بسيطة عن قدوته. • أن يصف الطالب قدوته ببعض الصفات الحسنة. Resources needed: الكتاب المدرسي - بوربوينت - صور عن القدوة - بطاقات كلمات - دفتر الطالب Homework/Assignments: حل أنشطة الكتاب المدرسي - حل ورقة العمل الخاصة بالدرس - كتابة 3 جمل عن قدوة الطالب
PHYSICS	BIOLOGY
Topics: 4.4 Electrical safety 4.1 Simple phenomena of magnetism Learning Objectives: State the hazards of: a. damaged insulation b. overheating cables c. damp conditions d. excess current from overloading of plugs, extension leads, single and multiple sockets when using a mains supply. Explain the use and operation of trip switches and fuses and choose appropriate fuse ratings and trip switch settings	Topics: Control and Coordination Accommodation Homeostasis Learning Objectives: Explain accommodation to view near and distant objects in terms of the contraction and relaxation of the ciliary muscles, tension in the suspensory ligaments, shape of the lens and refraction of Light Describe the distribution of rods and cones in the retina of a human Outline the function of rods and cones, limited to: (a) greater sensitivity of rods for night vision (b) three different kinds of cones, absorbing light of different colours, for colour vision Identify in diagrams and images the position of the fovea and state its function



Describe induced magnetism Describe a magnetic field as a region in which a magnetic pole experiences a force <u>Resources needed:</u> PPt, Simulations, Past paper <u>Homework/Assignments:</u> Topical Questions	Describe a hormone as a chemical substance, produced by a gland and carried by the blood, which alters the activity of one or more specific target organs Identify in diagrams and images specific endocrine glands and state the hormones they secrete, limited to: (a) adrenal glands and adrenaline (b) pancreas and insulin (c) testes and testosterone (d) ovaries and oestrogen Describe adrenaline as the hormone secreted in 'fight or flight' situations and its effects, limited to: (a) increased breathing rate (b) increased heart rate (c) increased pupil diameter Compare nervous and hormonal control, limited to speed of action and duration of effect Describe the control of blood glucose concentration by the liver and the roles of insulin and glucagon <u>Resources needed:</u> Textbook, PPT and videos. <u>Homework/Assignment</u> Topical questions
CHEMISTRY	ICT
<u>Topics:</u> 12. Experimental Techniques and chemical analysis 12.5 Identification of cations and gases 11. Organic Chemistry 11.1 Formulae, functional groups and terminology <u>Learning Objectives:</u> 1 Describe tests to identify the gases: (a) ammonia, NH₃, using damp red litmus	<u>Topics:</u> 7.3: Development and Testing 18: Databases <u>Learning Objectives:</u> - Compare and contrast between test strategy and test plan - Analyze normal, extreme and abnormal test data - Create a tabular report using specific fields and calculated fields.



paper

- (b) carbon dioxide, CO_2 , using limewater
- (c) chlorine, Cl_2 , using damp litmus paper
- (d) hydrogen, H_2 , using a lighted splint
- (e) oxygen, O_2 , using a glowing splint
- (f) sulfur dioxide, SO_2 , using acidified aqueous potassium manganate(VII)

2 Describe the use of a flame test to identify the cations:

- (a) lithium, Li^+
- (b) sodium, Na^+
- (c) potassium, K^+
- (d) calcium, Ca^{2+}
- (e) barium, Ba^{2+}
- (f) copper(II), Cu^{2+}

3. Draw and interpret the displayed formula of a molecule to show all the atoms and all the bonds

4 Write and interpret general formulae of compounds in the same homologous series, limited to:

- (a) alkanes, $\text{C}_n\text{H}_{2n+2}$
- (b) alkenes, C_nH_{2n}
- (c) alcohols, $\text{C}_n\text{H}_{2n+1}\text{OH}$
- (d) carboxylic acids, $\text{C}_n\text{H}_{2n+1}\text{COOH}$

5 Identify a functional group as an atom or group of atoms that determine the chemical properties of a homologous series

Resources needed:

Ions detection table, lab apparatus, ppt, youtube

Homework/Assignments:

Worksheet, IGCSE questions

- Create labels in MS Access
- Create and use a data entry form with specific fields.

Resources needed:

Notebooks, A4 sheets, Stationeries

Homework/Assignments:

- Complete the Edunation Quiz based on chapters 7.1 and 7.2
- Practice Paper 2 Database task



ISLAMIC ARABIC	ISLAMIC EDUCATION
Topics: <u>القرآن المكي والمدني</u> Learning Objectives: - أن يتمكن الطلاب من تعريف القرآن المكي والمدني. - أن يتمكن الطلاب من التمييز بين السور والآيات المكية والمدنية. - أن يتمكن الطلاب من تحديد الخصائص والموضوعات الرئيسة لكل منهما. Resources needed: - كتاب التربية الإسلامية. - القرآن الكريم. (PowerPoint) السبورة والعرض التقديمي. - جدول للمقارنة / بطاقات تعليمية. - أوراق عمل وأنشطة صفية. - فيديو تعليمي قصير. Homework/Assignments: - إكمال أنشطة الكتاب المدرسي المتعلقة بالدرس. - إعداد جدول مقارنة مبسط بين القرآن المكي والمدني.	Topics: Makkan and Madinan Qur'an Learning Objectives: - Students will be able to define Makkan and Madinan Qur'an. - Students will be able to differentiate between Makkan and Madinan revelations. - Students will be able to identify the main characteristics and themes of each. Resources needed: - Islamic Education textbook. - Holy Qur'an. - Whiteboard and PowerPoint presentation. - Comparison chart / flashcards. - Worksheet and classroom activities. - Short educational video. Homework/Assignments: - Complete the textbook activities related to the lesson. - Make a simple comparison table between Makkan and Madinan Qur'an.
ACCOUNTING	BUSINESS
Topics: Accounts of Limited Company -Comprehensive questions Learning Objectives: To formulate financial statements of limited companies Resources needed: Formats	Topics: Marketing Mix: Promotion Learning Objectives: To evaluate different methods of promotion. Resources needed: Topical case studies Activity sheets Homework/Assignments: Practice topical past papers



Task sheets

Topical questions

Homework/Assignment:

Topical questions

ECONOMICS

Topics:

Employment and unemployment, Inflation

Learning Objectives:

To explain the policies to reduce unemployment

To define inflation and deflation

To explain how inflation is measured using the consumer price index

To analyse the causes of inflation

Resources needed:

Task sheet

PPT

Text book

Homework/Assignments:

Four-part questions