

LEARNING TRAILS

AJB SECONDARY

Grade: 10

Date: Week 8 - 20th to 24th February 2023

| SUBJECTS | LESSONS AND CONCEPTS | LEARNING OBJECTIVES | ASSIGNMENTS AND ASSESSMENT |
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| ARABIC LANGUAGE _ ARABS UNIT: الفصل الدراسي الثاني LESSON: قصة الكرتونة | <ul style="list-style-type: none"> أصاخ - حملق طأطأت - تنثال الرتيبة - هلعة | <ul style="list-style-type: none"> أن يفسر الطالب معاني المفردات أن يحلل الطالب الفكرة المحورية للقصة أن يحدد الطالب الفكرة الرئيسة والفكر الفرعية للقصة أن يقيم الطالب أسلوب الكاتب | <ul style="list-style-type: none"> مناقشة العرض التقديمي أوراق عمل مختلفة أنشطة إلكترونية الواجب: حل أسئلة الدرس من خلال منصة ألف |
| ARABIC LANGUAGE_ GENERAL HG UNIT: 4 LESSON: التغير المناخي | <ul style="list-style-type: none"> الاحتباس الحراري الثروة السمكية المناطق الزراعية دمار الغابات | <ul style="list-style-type: none"> أن يتعرف الطالب المفردات الجديدة أن يذكر الطالب تأثير الأنشطة البشرية على المناخ أن يتحدث الطالب عن مؤشرات التغير المناخي | <ul style="list-style-type: none"> بوربوينت أنشطة تعليمية صفية الواجب (ان يكتب الطالب عن الحلول المقترحة للتخفيف من تأثيرات الإحتباس الحراري على الإنسان والحيوان والنبات) |
| ISLAMIC STUDIES_ ARABS UNIT: 4 LESSON: درس تدوين السنة | <ul style="list-style-type: none"> السنة النبوية ظنية الثبوت قطعية الثبوت حجية السنة تدوين المصنفات المسانيد | <ul style="list-style-type: none"> أوضح معنى تدوين السنة أبين مراحل تدوين السنة النبوية أحدد سبب منع النبي الصحابة من تدوين السنة أوضح تصنيف كتب السنة | <ul style="list-style-type: none"> مراجعة العرض التقديمي للدرس أنشطة مختلفة صفية حل أنشطة الدرس بمنصة ألف التعليمية حل أنشطة الطالب بالكتاب المدرسي |
| ISLAMIC STUDIES – ENGLISH UNIT: 4 LESSON: surah al kahf | <ul style="list-style-type: none"> Explain the verses while observing the rules of recitation Explain the meaning of the Quranic verses Events of the surah | <ul style="list-style-type: none"> ✓ Acquisition (, Watch, Learn) ✓ Learning from Practice ✓ Learning from discussion ✓ Learning from real life connection/ subject integration/ MEP integration ✓ Power point video embedded | <ul style="list-style-type: none"> Online quiz Discussion Daily life PPT Video Textbook |

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| | | <ul style="list-style-type: none"> ✓ Live Teaching ✓ Task sheets for practice ✓ Discussion tool | |
| <p>ENGLISH LANGUAGE</p> <p>UNIT: 6</p> <p>LESSON: REPORT AND REVIEW WRITING</p> | <ul style="list-style-type: none"> To distinguish, differentiate and to argue between the benefits and drawbacks of the topic and to write a 4-paragraph essay on the same. | <ul style="list-style-type: none"> To use transitional devices that differ from summary writing and use points which state the benefits and drawbacks of the writing task having what they learnt and suggestions for improvements. | <ul style="list-style-type: none"> PAST PAPER BOOKLET |
| <p>MATHEMATICS</p> <p>UNIT: 7</p> <p>LESSON: Functions, graph of function, speed distance time graph, nonlinear simultaneous equations</p> | <ul style="list-style-type: none"> Recap of functions, graph of function, speed distance time graph | <ul style="list-style-type: none"> To plot smooth curve from the given function and solve its related problems Calculate acceleration and total distance from speed distance time graph Evaluate simple linear function and composite function Find the inverse of the given function | <ul style="list-style-type: none"> Practice past paper questions Class test Daily practice questions |
| <p>PHYSICS</p> <p>UNIT: 1(Revision)</p> <p>LESSON: a)Describing Motion b) Forces and Motion, c)Turning effect d) Forces and Matter</p> | <ul style="list-style-type: none"> Understanding speed Distance –time Graphs Speed time graph Momentum Moment | <ul style="list-style-type: none"> Define and calculate acceleration Distinguish between speed and velocity Use the gradient of the distance time graph to calculate speed Apply principle of conservation of momentum | <ul style="list-style-type: none"> Peer assessment Self-assessment Past paper questions Mind Map |

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| <p>CHEMISTRY</p> <p>UNIT: Stoichiometry</p> <p>LESSON: Moles and Avogadro number</p> | <ul style="list-style-type: none"> State that the mole, mol, is the unit of amount of substance and that one mole contains 6.02×10^{23} particles, e.g. atoms, ions, molecules; this number is the Avogadro constant Use the relationship amount of substance (mol) = mass (g) molar mass (g/mol) to calculate: (a) amount of substance (b) mass (c) molar mass (d) relative atomic mass or relative molecular/formula mass (e) number of particles, using the value of the Avogadro constant Use the molar gas volume, taken as 24 dm^3 at room temperature and pressure, r.t.p., in calculations involving gases | <ul style="list-style-type: none"> Calculate stoichiometric reacting masses, limiting reactants, volumes of gases at r.t.p., volumes of solutions and concentrations of solutions expressed in g/dm^3 and mol/dm^3, including conversion between cm^3 and dm^3 Use experimental data from a titration to calculate the moles of solute, or the concentration or volume of a solution Calculate empirical formulae and molecular formulae, given appropriate data Calculate percentage yield, percentage composition by mass and percentage purity, given appropriate data | <ul style="list-style-type: none"> Peer assessment Self-assessment Past paper questions Mind Map Worksheet |
| <p>BIOLOGY</p> <p>UNIT: 19 Organisms and their environment</p> <p>LESSON: Food chains and food webs, Nutrient cycles, Populations</p> | <ul style="list-style-type: none"> FOOD CHAIN AND FOOD WEB ENERGY FLOW IN ECOSYSTEM POPULATION AND COMMUNITY | <ul style="list-style-type: none"> Describe a food chain as showing the transfer of energy from one organism to the next, beginning with a producer Describe a food web as a network of interconnected food chains and interpret food webs. Draw, describe and interpret pyramids of | <ul style="list-style-type: none"> TASK SHEET PPT WORK SHEET VIDEOS COLABRATIVE ACTIVITIES PAST PAPERS |



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| | | <p>numbers and pyramids of biomass</p> <ul style="list-style-type: none"> • Discuss the advantages of using a pyramid of energy rather than pyramids of numbers or biomass to represent a food chain. • Explain why the transfer of energy from one trophic level to another is often not efficient. • Describe the nitrogen cycle • Describe a community as all of the populations of different species in an ecosystem • Explain the factors that lead to each phase in the sigmoid curve of population growth, making reference, where appropriate, to the role of limiting factors | |
| <p>INFORMATION & COMMUNICATION TECHNOLOGY (ICT)</p> <p>UNIT: 6</p> <p>LESSON: ICT application</p> | <ul style="list-style-type: none"> • GIS | <ul style="list-style-type: none"> • Describe GIS • Define GIS functions | <ul style="list-style-type: none"> • Assessments • PPTs |
| <p>ECONOMICS</p> <p>UNIT:</p> <p>LESSON:</p> | <ul style="list-style-type: none"> • Paper 22/ May June 2017 • | <ul style="list-style-type: none"> • To practice students to read the data responses and write answers as per the command words. • To practice students to manage time and space to complete the answers | <ul style="list-style-type: none"> • Progressives test • Solving for answers |



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| <p>ACCOUNTING</p> <p>UNIT: IGCSE Topical Papers –Revision</p> <p>LESSON: Paper 22</p> | <ul style="list-style-type: none"> • Control accounts • Manufacturing accounts • Correction of errors • Partnership accounting | <ul style="list-style-type: none"> • To analyse the data and formulate financial statements in line with accounting standards • To ensure students follow the prescribed format in preparation of financial statements. | <ul style="list-style-type: none"> • Topical question sheets • Assessment and feedback |
| <p>BUSINESS STUDIES</p> <p>UNIT: Paper 22</p> <p>LESSON:</p> | <ul style="list-style-type: none"> • Paper 22/ May June 2019 | <ul style="list-style-type: none"> • To practice students to read the case studies and write answers as per the command words. • To practice students to manage time and space to complete the answers | <ul style="list-style-type: none"> • Progressives test • Solving answers |