



LEARNING TRAILS AY 2024-25

GRADE: 9

TERM 1_WEEK 10 (28th October to 1st November 2024)

ENGLISH	MATHEMATICS
<p>Topics: Reading comprehension Note taking Class Test</p> <p>Learning Objectives: To read for understanding and respond correctly to questions To do notetaking</p> <p>Resources needed: Ppt Workbook worksheet</p> <p>Homework/Assignments:</p>	<p>Topics: Algebra-1</p> <p>Learning Objectives: Expand products of algebraic expressions e.g. $3x(2x - 4y)$, $(x + 4)(x - 7)$.</p> <ul style="list-style-type: none"> Factorise simple algebraic expression. e.g. $9x^2 + 15xy$ and $ax + bx + kay + kby$ Factorise Quadratic (trinomial) expression. e.g. $x^2 + 6x + 8$ and $3x^2 + 13x + 4$ The difference of two squares e.g. $a^2 - b^2$ <p>Solve simple linear equations in one unknown.</p> <ul style="list-style-type: none"> Derive and solve simple linear equations in one unknown. <p>Resources needed: https://pastpapers.co/cie/?dir=IGCSE%2FMathematics-0580</p> <p>Homework/Assignments:</p> <ul style="list-style-type: none"> Solve 5 even number questions from textbook Weekly Test (Every MONDAY) Question of the day (Monday to Thursday 6:00pm to 11:59 pm)



ADVANCED ARABIC	GENERAL ARABIC
<p>Topics: اسم الفاعل</p> <p>Learning Objectives: أن يشتق المتعلم اسم الفاعل من الفعل الثلاثي وغير الثلاثي أن يعرب المتعلم اسم الفاعل ويوظفه في مواقف حياتية</p> <p>Resources needed: الكتاب المدرسي - الدفتر المدرسي - العرض التقديمي - مقطع فيديو</p> <p>Homework/Assignments: حل تمارين الدرس</p>	<p>Topics: أمي ملكة</p> <p>Learning Objectives: <u>أن يتعرف على بعض الأمثلة من اليوميات</u> <u>أن يتحدث عن أهمية الام في حياة كل إنسان</u> <u>أن يتذكر تكوين الجملة الإسمية</u></p> <p>Resources needed (الكتاب - أوراق عمل - العرض التقديمي)</p> <p>Homework/Assignments: أكتب جزءاً من يومياتك في دفترك</p>
PHYSICS	BIOLOGY
<p>Topics: Center of gravity, momentum</p> <p>Learning Objectives: Describe an experiment to determine the position of the center of gravity of an irregularly shaped plane lamina. Apply the principle of the conservation of momentum to solve simple problems in one dimension.</p> <p>Resources needed: Worksheets, PPT, Videos, Past paper questions</p> <p>Homework/Assignments: Practicing questions from worksheets and past papers.</p>	<p>Topics: • Diffusion and Osmosis</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">• State that some substances move into and out of cells by diffusion through the cell membrane• Describe the importance of diffusion of gases and solutes in living organisms• 5 Investigate the factors that influence diffusion, limited to: surface area, temperature, concentration gradient and distance• Describe the role of water as a solvent in organisms with reference to digestion, excretion and transport <p>Resources needed:</p> <ul style="list-style-type: none">• Power Point presentations• Workbook• Textbook• Laptop• Smart board <p>Homework/Assignments:</p> <ul style="list-style-type: none">• Topic related past paper questions for practice• Worksheet posted on teams



CHEMISTRY	ENVIRONMENTAL MANAGEMENT
<p>Topics: The Periodic Table</p> <p>Learning Objectives: Explain similarities in the chemical properties of elements in the same group of the Periodic Table in terms of their electronic configuration Explain how the position of an element in the Periodic Table can be used to predict its properties Identify trends in groups, given information about the elements Describe the Group I alkali metals, lithium, sodium and potassium, as relatively soft metals with general trends down the group, limited to: (a) decreasing melting point (b) increasing density (c) increasing reactivity Predict the properties of other elements in Group I, given information about the elements</p> <p>Resources needed: PPTs, Videos, Workbook, Textbook</p> <p>Homework/Assignments: Daily Questions, Weekly Assignment, Past paper Questions.</p>	<p>Topics: Energy resources and the generation of electricity</p> <p>Learning Objectives:</p> <p>Define and Differentiate Renewable and Non-Renewable Energy:</p> <ul style="list-style-type: none"> • Understand the concept of renewable and non-renewable energy resources. • Differentiate between resources that can be replenished naturally (renewable) and those that are finite and deplete over time (non-renewable). <p>Discuss the environmental and economic benefits of using renewable energy resources over non-renewable ones.</p> <p>Resources needed: Past Papers, PPT</p> <p>Homework/Assignments: Research the impact of energy resource usage on sustainability and the future of global energy consumption.</p>
ISLAMIYAT	ISLAMIC STUDIES
<p>Topics: The Safety of Society and Unity of its Members</p> <p>Learning Objectives: Understand the key teachings of Surah al-Hujuraat, Ayahs 11-13, in the context of fostering unity, respect, and social harmony. Interpret the meanings of the verses with a focus on how they prohibit mocking, defamation, suspicion, and backbiting.</p> <p>Resources needed: PowerPoint slides with key points and discussion questions (optional).</p>	<p>Topics: The Safety of Society and Unity of its Members</p> <p>Learning Objectives: Understand the key teachings of Surah al-Hujuraat, Ayahs 11-13, in the context of fostering unity, respect, and social harmony. Interpret the meanings of the verses with a focus on how they prohibit mocking, defamation, suspicion, and backbiting.</p> <p>Resources needed: PowerPoint slides with key points and discussion questions (optional).</p>



<p>Whiteboard/Markers for brainstorming and summarizing key concepts.</p> <p>Short Video Clips or audio recitations of Surah al-Hujuraat, with explanations.</p> <p>Homework/Assignments:</p> <p>How can the teachings of Surah al-Hujuraat (11-13) contribute to building a peaceful and respectful community? Provide examples from your life or community.</p>	<p>Whiteboard/Markers for brainstorming and summarizing key concepts.</p> <p>Short Video Clips or audio recitations of Surah al-Hujuraat, with explanations.</p> <p>Homework/Assignments:</p> <p>How can the teachings of Surah al-Hujuraat (11-13) contribute to building a peaceful and respectful community? Provide examples from your life or community.</p>
URDU	PAKISTAN STUDIES
<p>Topics:</p> <p style="text-align: center;">نوٹس بنانا</p> <p>Learning Objectives:</p> <p style="text-align: center;">نادیدہ عبارت پڑھنا اور سمجھنا اشارات کی مدد سے نوٹس بنانا</p> <p>Resources needed:</p> <p style="text-align: center;">لیپ ٹاپ ڈیجیٹل بورڈ، کتاب۔ ۱۔</p> <p>Homework/Assignments:</p> <p>صفحہ: ۲۱۸-۲۲۴-۲۲۳-۲۲۳ کلاس</p>	<p>Topics:</p> <p>How successful was Pakistan in the twenty years following the ‘Decade of Progress’?</p> <ol style="list-style-type: none">1. <i>Policies of Zulfikar Ali Bhutto, 1971–77?</i>2. <i>Why was Bhutto overthrown in 1977?</i> <p>Learning Objectives:</p> <p>Students would be able learn what were the polices and governance model of ZA Bhutto. They will learn it’s impact on the political landscape of Pakistan.</p> <p>Main events of ZA politics:</p> <ul style="list-style-type: none">• <i>Controlling the army</i>• <i>Simla Agreement, 1972</i>• <i>New constitution, 1973</i>• <i>Industrial, agricultural, education, health, social and administrative reforms</i>• <i>His overthrow.</i> <p>Resources needed:</p> <p>Textbook, Laptop, Projector, YouTube videos, Whiteboard & Markers</p> <p>Homework/Assignments:</p> <p><i>Write an essay on the positive and negative consequences of ZA Bhutto’s politics. Connect it to the separation of East Pakistan.</i></p>



ICT	TRAVEL AND TOURISM
<p><u>Topics:</u></p> <p>Direct input devices and Output devices</p> <p><u>Learning Objectives:</u></p> <p>Direct data input devices:</p> <ul style="list-style-type: none"> Describe the uses of each device (QR code scanner, RFID Reader) <p>Output devices:</p> <ul style="list-style-type: none"> List different output devices Describe the uses of each output devices Differentiate between the characteristics of different monitors Differentiate between the characteristics of different printers <p><u>Resources needed:</u></p> <p>PPTs, Past Paper questions, smart board and video</p> <p><u>Homework/Assignments:</u></p> <p>The class test will be conducted at second theory period, on the topic direct data entry devices</p>	<p><u>Topics:</u></p> <p>Socio cultural impact of tourism</p> <p><u>Learning Objectives:</u></p> <p>To evaluate the socio cultural impact of tourism on host destinations</p> <p><u>Resources needed:</u></p> <p>Textbook Case studies</p> <p><u>Homework/Assignments:</u></p> <p>Practice topical questions</p>
ACCOUNTING	BUSINESS STUDIES
<p><u>Topics:</u></p> <p>Statement of account , Cash book</p> <p><u>Learning Objectives:</u></p>	<p><u>Topics:</u></p> <p>Private sector Business organisations</p> <p><u>Learning Objectives:</u></p>



<p>To analyse statement of accounts To formulate three column cash book</p> <p>Resources needed: Text book Formats Task sheets</p> <p>Homework/Assignment: Topical questions</p>	<p>To analyze the features of franchise To evaluate the benefits and limitations of franchise</p> <p>Resources needed: E book Topical questions</p> <p>Homework/Assignments: Practice Topical Case studies</p>
ECONOMICS	MORAL, SOCIAL AND CULTURAL STUDIES
<p>Topics: Supply</p> <p>Learning Objectives: To define supply To distinguish between extensions and contractions in supply To analyze the causes of shifts in the supply curve</p> <p>Resources needed: Smart board, past paper, topical questions</p> <p>Homework/Assignments: Four-part question –textbook</p>	<p>Topics: The Archeological site of MUWAILEH</p> <p>Learning Objectives: Examine the archaeological site of Muwaileh, its historical significance, artifacts, and insights into ancient trade, culture, and settlement patterns.</p> <p>Resources needed: PPTS Videos Textbook Activities</p> <p>Homework/Assignments: Research the archaeological findings at Muwaileh and explain how they reflect the region's trade, culture, and early settlement patterns.</p>
UAE ARABIC	ISLAMIC ARABIC
<p>Topics: الوحدة : الامارات نبض العالم الدرس : وثيقة الاخوة الانسانية</p> <p>Learning Objectives: يتعرف وثيقة الاخوة الانسانية يناقش أهمية الحوار الحضاري بين الشعوب</p> <p>Resources needed: الكتاب المدرسي السيورة الذكية البوربوينت</p>	<p>Topics: <u>سلامة المجتمع ووحدة بنائه</u></p> <p>Learning Objectives: تلاوة الآيات تلاوة مجودة تفسير المفردات الواردة في الآيات بيان خطورة الشائعات في المجتمع</p> <p>Resources needed: الكتاب المدرسي السيورة الذكية البوربوينت</p>



أنشطة صفية

Homework/Assignments:

البحث في معاهدات السلام العالمية

أنشطة صفية

Homework/Assignments:

حل أنشطة الطالب بالكتاب المدرسي

حفظ الآيات الكريمة

مراجعة البوربوينت للدرس

ART AND DESIGN

Topics: Lips & Nose Leonardo da Vinci

Learning Objectives:

- - All must be able to draw basic lips and nose using simple shapes.
- - Most should be able to add stylization and shading to enhance depth and form.
- - The more able could create detailed, expressive features, applying advanced shading and stylization techniques.

Resources needed:

- - Drawing Book
- - Pencils (HB, 2B, 4B for shading)
- - Erasers
- - Reference images of lips and noses (realistic and stylized)
- - Rulers (optional)