



## LEARNING TRAILS AY 2024-25

GRADE: 9

TERM 1\_WEEK 6 (30<sup>th</sup> to 4<sup>th</sup> October 2024)

| ENGLISH  | MATHEMATICS  |
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| <p><b><u>Topics:</u></b><br/>Speaking<br/>The zero and first conditionals</p> <p><b><u>Learning Objectives:</u></b><br/>To speak fluently<br/>To use the zero and first conditional</p> <p><b><u>Resources needed:</u></b><br/>Ppt<br/>Worksheet<br/>workbook</p> <p><b><u>Homework/Assignments:</u></b><br/>Worksheet on first conditionals</p> | <p><b><u>Topics:</u></b><br/>Number/Algebra</p> <p><b><u>Learning Objectives:</u></b><br/>Rationalize surd denominators and simplify expressions.</p> <ul style="list-style-type: none"><li>• Apply surds in solving equations and word problems.</li><li>• Use surds in practical applications and real-life contexts.</li><li>• Use directed numbers in practical situations</li><li>• (e.g. temperature changes, flood levels.)</li><li>• Use letters to express generalized numbers and express basic arithmetic processes algebraically.</li><li>• Transform simple formulae.</li><li>• Expand the brackets by using identities</li></ul> <p><b><u>Resources needed:</u></b><br/>Expanding brackets (Tarsia activity)<br/><a href="https://pastpapers.co/cie/?dir=IGCSE%2FMathematics-0580">https://pastpapers.co/cie/?dir=IGCSE%2FMathematics-0580</a></p> <p><b><u>Homework/Assignments:</u></b><br/>Solve 5 even number questions from textbook</p> <ul style="list-style-type: none"><li>• Weekly Test (Every MONDAY)</li><li>• Question of the day (Monday to Thursday 6:00pm to 11:59 pm)</li></ul> |



| ADVANCED ARABIC  | GENERAL ARABIC   |
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| <p><b>Topics:</b><br/>النحو : الميزان الصرفي</p> <p><b>Learning Objectives:</b><br/>أن يتعرف المتعلم الميزان الصرفي ويستخدمه في وزن الكلمات الصحيحة والمعتلة</p> <p><b>Resources needed:</b><br/>الكتاب المدرسي - الدفتر المدرسي - العرض التقديمي - السبورة الذكية</p> <p><b>Homework/Assignments:</b><br/>حل ص156 من الكتاب</p>   | <p><b>Topics:</b><br/>الحلم قد يصبح حقيقة</p> <p><b>Learning Objectives:</b><br/>يتعرف كيفية تحقيق الحلم<br/>يوظف الكلمات الجديدة في جمل<br/>يفرق بين الحلم والحقيقة</p> <p><b>Resources needed:</b><br/>الكتاب - العرض التقديمي - الانترنت</p> <p><b>Homework/Assignments:</b><br/>قارن بين الحلم والحقيقة</p>  |
| PHYSICS  | BIOLOGY  |
| <p><b>Topics:</b><br/>Forces and effects of forces.</p> <p><b>Learning Objectives:</b></p> <ul style="list-style-type: none"><li>To sketch, plot and interpret load-extension graphs for an elastic solid and describe the associated experimental procedures.</li><li>To define the spring constant as force per unit extension.</li></ul> <p><b>Resources needed:</b><br/>PPT, worksheets, textbook, simulation</p> <p><b>Homework/Assignments:</b><br/>Worksheets and past paper questions.</p> | <p><b>Topics:</b><br/>Cell Structure and organization</p> <p><b>Learning Objectives:</b><br/>Describe and compare the structure of a plant cell with an animal cell<br/>Describe the structure of a bacterial cell.<br/>Describe the functions of cell structures.<br/>State that specialized cells have specific functions.<br/>Calculate magnification and size of biological specimens using millimeters as units</p> <p><b>Resources needed:</b><br/>Explain the role of auxin in controlling shoot growth</p> <p><b>Homework/Assignments:</b><br/>Past papers, Drawings, read and learn for class test.</p> |



| CHEMISTRY   | ENVIRONMENTAL MANAGEMENT   |
|---|--|
| <p><b>Topics:</b><br/>Atoms, Elements and compounds</p> <p><b>Learning Objectives:</b><br/>Define covalent bond<br/>Describe the formation of covalent bonds in simple molecules, including H<sub>2</sub>, Cl<sub>2</sub>, H<sub>2</sub>O, CH<sub>4</sub>, NH<sub>3</sub> and HCl. Use dot-and-cross diagrams.<br/>Describe the formation of covalent bonds in simple molecules, including CH<sub>3</sub>OH, C<sub>2</sub>H<sub>4</sub>, O<sub>2</sub>, CO<sub>2</sub> and N<sub>2</sub>. Use dot-and-cross diagrams.<br/>Describe and Explain in terms of structure and bonding the properties of simple molecular compounds:</p> <p><b>Resources needed:</b><br/>PPT, Periodic table, textbook, workbook</p> <p><b>Homework/Assignments:</b><br/>Daily Questions, Weekly Assignment and Past paper questions.</p> | <p><b>Topics:</b><br/>The cycle of water-related diseases and their impact on human activities and development.</p> <p><b>Learning Objectives:</b><br/>Discuss the difference between 'water-based', 'water-borne' and 'water-bred' diseases, using the examples named in the syllabus.<br/>Draw a circular flow diagram to show how disease reduces the ability of people to work contributing to the cycle of poverty and the poverty trap.<br/>Case study of one of these diseases, using headings such as causes, symptoms and consequences for people and their activities. Unless one of the named diseases is locally much more important, the obvious choice is malaria given its virulence and widespread distribution in developing countries.</p> <p><b>Resources needed:</b><br/>PPT<br/>Past Papers</p> <p><b>Homework/Assignments:</b><br/>0680 past examination paper:<br/>Nov 2012 Paper 12 Q 1(b)</p> |
| ISLAMIYAT   | ISLAMIC STUDIES  |
| <p><b>Topics:</b><br/>History of the Quran</p> <p><b>Learning Objectives:</b><br/>Understand the origins and revelation process of the Quran.<br/>Learn about the stages of Quranic compilation during the time of Prophet Muhammad (PBUH), Caliph Abu Bakr, and Caliph Uthman.</p>   | <p><b>Topics:</b><br/>The Seven Grave Sins</p> <p><b>Learning Objectives:</b><br/>Identify and describe the Seven Grave Sins in detail. Understand the consequences of committing these sins from both religious and ethical perspectives. Analyze real-life situations where these sins may apply and reflect on moral decision-making.</p>   |



Analyze the significance of preserving the Quran in both oral and written forms.

**Resources needed:**

**Quran** (Physical or Digital copies) for reference.

**Textbook/Handouts** on the history of the Quranic compilation (with timelines and key figures).

**Homework/Assignments:**

Write a 300-word essay summarizing the key stages in the compilation of the Quran, focusing on the contributions of Caliph Abu Bakr and Caliph Uthman.

**Resources needed:**

videos or PowerPoint slides explaining the sins and their impact in both historical and modern contexts. Discussion Handouts – a worksheet with scenarios or case studies to engage students in applying the concept of the Seven Grave Sins to real-life situations.

**Homework/Assignments:**

Write an essay of 300-400 words on one of the Seven Grave Sins, discussing its moral and ethical implications and how it could be avoided in daily life. Use examples from religious texts or real-life experiences to support your views.

**URDU**

**Topics:**

**Topics:** Notes making

نوٹس بنانا

**Learning Objectives:**

- نادیدہ اقتباس سے متن کے اہم خیالات اور معنی کو سمجھنا۔
  - دئے گئے پیرا گراف میں سے اشارات کی مدد سے نوٹس بنانا
- واضح، درست اور مناسب طریقے سے جواب دیں اور بات چیت کریں

**Resources needed:**

- کتاب - ۱
- ڈیجیٹل بورڈ
- کاپی
- مارکر

**Homework/Assignments:**

- کلاس ٹیسٹ
- جماعت میں لئے گئے موضوع کی ۵ مثالیں گھر پر کاپی مین لکھیں

**PAKISTAN STUDIES**

**Topics:**

Mineral Resources

**Learning Objectives:**

Evaluate the economic and environmental impact of mineral excavation.

**Resources needed:**

PPT, worksheets, textbook, simulation

**Homework/Assignments:**

Worksheets and past paper questions



| ICT  | TRAVEL AND TOURISM   |
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| <p><b><u>Topics:</u></b><br/>Direct Data Entry Devices</p> <p><b><u>Learning Objectives:</u></b><br/>Describe the different direct data entry devices</p> <p><b><u>Resources needed:</u></b><br/>Textbook<br/>Past Paper Questions</p> <p><b><u>Homework/Assignments:</u></b><br/>Collect the direct data entry devices pictures and stick it on the notebook.</p> | <p><b><u>Topics:</u></b><br/>Subsectors of tourism</p> <p><b><u>Learning Objectives:</u></b><br/>To analyse the role of different subsectors of tourism industry</p> <p><b><u>Resources needed:</u></b><br/>Textbook<br/>Quizlet flash cards</p> <p><b><u>Homework/Assignments:</u></b><br/>Topical case studies</p>   |
| ACCOUNTING   | BUSINESS STUDIES   |
| <p><b><u>Topics:</u></b><br/>Trial balance, Revision</p> <p><b><u>Learning Objectives:</u></b><br/>To formulate trial balance</p> <p><b><u>Resources needed:</u></b><br/>Task sheet<br/>PPT<br/>Format</p> <p><b><u>Homework/Assignments:</u></b><br/>Topical questions</p>  | <p><b><u>Topics:</u></b><br/>Forms of Business organization</p> <p><b><u>Learning Objectives:</u></b><br/>To differentiate different forms of business organization.<br/>To evaluate the importance of different forms of business organization.</p> <p><b><u>Resources needed:</u></b><br/>Textbook<br/>Topical case studies</p> <p><b><u>Homework/Assignments:</u></b><br/>Practicing topical questions which are uploaded in teams.</p> |
| ECONOMICS  | MORAL, SOCIAL AND CULTURAL STUDIES   |
| <p><b><u>Topics:</u></b> Demand</p> <p><b><u>Learning Objectives:</u></b></p> <ul style="list-style-type: none"> <li>• To define demand</li> <li>• Factors affecting demand</li> </ul>   | <p><b><u>Topics:</u></b><br/>The impact of Falaj during the Iron Age</p> <p><b><u>Learning Objectives:</u></b><br/>Examine the significance of the Falaj irrigation system during the Iron Age, focusing on its</p>  |



| <p><b>Resources needed:</b><br/>Smart board<br/><a href="#">Interactive Practice   Supply and Demand   Interactive Practice by MRU</a></p> <p><b>Homework/Assignments:</b><br/>Complete assignment</p>   | <p>influence on agriculture, settlement patterns, and socio-economic development.</p> <p><b>Resources needed:</b><br/>PPTS<br/>Videos<br/>Textbook Activities</p> <p><b>Homework/Assignments:</b><br/>Investigate how the Falaj system transformed agricultural practices during the Iron Age. Analyze its effects on community life, trade, and regional sustainability.</p> <p><b>Homework/Assignments:</b></p>  |
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| UAE ARABIC   | ISLAMIC ARABIC   |
| <p><b>Topics:</b><br/>لوحدة : الامارات نبض العالم<br/>الدرس : دستور دولة الامارات العربية المتحدة</p> <p><b>Learning Objectives:</b><br/>تابع<br/>يوضح بنود الدستور و مواده<br/>يبين أهمية الدستور و القانون للمجتمع في دولة الامارات العربية المتحدة</p> <p><b>Resources needed:</b><br/>الكتاب المدرسي<br/>السيورة الذكية<br/>البوربوينت<br/>أنشطة صفية</p> <p><b>Homework/Assignments:</b><br/>بحث حول الدساتير في العالم</p> | <p><b>Topics:</b><br/>التناصح في الإسلام</p> <p><b>Learning Objectives:</b><br/>أن يتعرف الطالب على مفهوم النصيحة .<br/>أن يوضح الطالب آداب التناصح .<br/>أن يستنتج الطلاب فوائد التناصح على الفرد والمجتمع</p> <p><b>Resources needed:</b><br/>الكتاب المدرسي<br/>السيورة الذكية<br/>البوربوينت<br/>أنشطة صفية</p> <p><b>Homework/Assignments:</b><br/>حل أنشطة الطالب بالكتاب المدرسي<br/>حل المهمة المرسلة على قنوات التيمز<br/>مراجعة البوربوينت للدرس</p> |
| ART AND DESIGN   |  |
| <p><b>Topics:</b> Eye Anatomy and Structure</p> <p><b>Learning Objectives:</b><br/>- Teach students the detailed anatomy and structure of the human eye.</p>   |  |



- Guide students in accurately drawing the eye, focusing on proportions, shading, and adding realism.

**Resources needed:**

- Drawing paper (A4 or A3)
- Pencils (HB, 2B, 4B, 6B)
- Erasers
- Blending stumps or tissues
- Reference images of eyes (front view, side view, expressive eyes)