

**MATHEMATICS – MYP 1(YEAR 7), TERM 2**  
**AL JAZEERA ACADEMY**  
**MIDDLE YEARS PROGRAMME, 2009-2010**

| TOPICS  | OBJECTIVES  | AREAS OF INTERACTION   | ASSESSMENT CRITERIA  |
|---|---|--|--|
| <p><b>Unit 7:</b><br/>Time and Temperature<br/>2 Weeks</p> <p><b>Unit Question:</b><br/>What are the main impacts of time and temperature on our lives?</p> <p><b>Content/Key Questions:</b></p> <ul style="list-style-type: none"> <li>✓ How do we measure temperatures?</li> <li>✓ How do we write temperatures in words &amp; in figures?</li> <li>✓ How do we write temperatures in order of size?</li> <li>✓ How do we measure temperature changes?</li> <li>✓ How do you sort positive and negative numbers in order of size on a number line?</li> <li>✓ How do we use a number line?</li> <li>✓ How do we read time?</li> <li>✓ How do we find the difference in time?</li> <li>✓ How do we read clocks and watches?</li> <li>✓ How do we work out and read timetables and time zones?</li> <li>✓ How do we work out average speed?</li> <li>✓ How do we do temperature conversions?</li> </ul> | <p><b>Students should have knowledge of / be able to:</b></p> <p><b>A – Knowledge and Understanding</b></p> <ul style="list-style-type: none"> <li>➤ Measure temperature changes;</li> <li>➤ Adding and subtracting positive and negative numbers.</li> </ul> <p><b>B- Investigating Patterns</b></p> <ul style="list-style-type: none"> <li>➤ Write temperatures in order of size;</li> <li>➤ Sort positive and negative numbers in order of size.</li> </ul> <p><b>C - Communication in Mathematics</b></p> <ul style="list-style-type: none"> <li>➤ Use a number line to sort numbers in order of size;</li> <li>➤ Use thermometers to measure temperatures in degrees Celsius;</li> <li>➤ Read weather maps showing temperatures in degrees Celsius.</li> </ul> <p><b>D - Reflection in Mathematics</b></p> <ul style="list-style-type: none"> <li>➤ Comment on findings in temperatures investigation</li> </ul> | <p><b>Approaches to learning:</b></p> <ul style="list-style-type: none"> <li>* Use of thermometers</li> <li>* know how to read maps;</li> <li>* Performing basic operations;</li> <li>* Assess and evaluate own work;</li> <li>* Apply mathematical concepts;</li> <li>* Draw and read number lines.</li> </ul> <p><b>Environments:</b></p> <ul style="list-style-type: none"> <li>* Compare temperatures during different seasons for the last 10 years.</li> <li>* Investing temperatures in other countries- Antarctica –has globing warming effecting these countries.</li> </ul> <p><b>Health and Social:</b></p> <ul style="list-style-type: none"> <li>*What can I do to help to fight against global warming?</li> </ul> | <p><b><u>A: Knowledge &amp; Understanding (8)</u></b></p> <p><b><u>B: Investigating Patterns (8)</u></b></p> <p><b><u>C: Communication in Mathematics (6)</u></b></p> <p><b><u>D: Reflection in Mathematics (6)</u></b></p> <p><b><u>TOTAL: 28</u></b></p> <p><b>Assessments:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Mental Arithmetic test (A);</li> <li><input type="checkbox"/> Investigation: Students analyse temperature fluctuations for 5 days between different cities in cold parts of the World (B,C,D)</li> </ul> |