

**MATHEMATICS – MYP 3 (YEAR 9) , TERM 2**  
**AL JAZEERA ACADEMY**  
**MIDDLE YEARS PROGRAMME, 2009-2010**

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p><b>Topic 12:</b> Volume and Capacity ± 1 Week</p> <p><b>Unit Question:</b> Who cares about volume and capacity?</p> <p><b>Key Questions</b></p> <ul style="list-style-type: none"> <li>✓ What is volume and which measures do I use for volume?</li> <li>✓ How do I convert between units of volume?</li> <li>✓ Which formulae do I need know to find volume?</li> <li>✓ What is capacity and which measures do I use for capacity?</li> <li>✓ How do I convert between units of capacity?</li> <li>✓ How do I convert between the units of volume and capacity?</li> <li>✓ How do I use appropriate formulae to solve real life volume and capacity problems?</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>⇒ Know what volume is and that it is measured in cubic units.</li> <li>⇒ Know what capacity is and that it is measured in mL, L and kL.</li> </ul> <p><b>B- Investigating Patterns</b></p> <ul style="list-style-type: none"> <li>⇒ Convert between units of volume.</li> <li>⇒ Convert between units of capacity.</li> </ul> <p><b>C - Communication in Mathematics</b></p> <ul style="list-style-type: none"> <li>⇒ Use formulae to calculate volume.</li> <li>⇒ Convert between the units of volume and capacity.</li> </ul> <p><b>D - Reflection in Mathematics</b></p> <ul style="list-style-type: none"> <li>⇒ Justify why a solution does or does not make sense in the given content when solving real life volume and capacity problems.</li> </ul>	<p><b>Approaches to learning:</b></p> <ul style="list-style-type: none"> <li>• Apply mathematical concepts.</li> <li>• Performing basic operations.</li> <li>• Use formulae to help solve problems.</li> <li>• Assess and evaluate own work.</li> <li>• Problem solving.</li> </ul> <p><b>Environments:</b></p> <ul style="list-style-type: none"> <li>• Investing volume and capacity of icebergs and discuss the effect of global warming.</li> </ul>	<p><b>A: Knowledge and Understanding (8)</b>  <b>B: Investigating Patterns (8)</b>  <b>C: Communication (6)</b>  <b>D: Reflection and Evaluation (6)</b>  <b>TOTAL: 28</b></p> <p><b>Assessments:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Mental Arithmetic Test. (A)</b></li> <li><input type="checkbox"/> <b>Formal Test: Algebra; Volume and Capacity. (A, C)</b></li> </ul>