

MATHEMATICS – MYP 2 (YEAR 8) , TERM 2
AL JAZEERA ACADEMY
MIDDLE YEARS PROGRAMME, 2009-2010

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 11: Further Measurement. 1 Week</p> <p>Unit Question: How can we use algebra and arithmetic to measure volume, capacity, mass and time?</p> <p>Key Questions: How do we: <ul style="list-style-type: none"> ✓ Calculate the volume of simple 3 dimensional prisms with a uniform cross section? ✓ Convert between the units of capacity? ✓ Convert between the units of capacity and volume? ✓ Distinguish between mass and weight? ✓ Convert between units of mass? ✓ Determine unit relationships? ✓ Convert between units of time? ✓ Use timetables? ✓ Determine the time in different time zones? </p>	<p>Students should have knowledge of/be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ⇒ Calculate the volume of simple 3 dimensional prisms with a uniform cross section. ⇒ Distinguish between mass and weight. ⇒ Determine unit relationships. ⇒ Use timetables. ⇒ Determine the time in different time zones. <p>B – Investigating Patterns</p> <ul style="list-style-type: none"> ⇒ Convert between the units of capacity. ⇒ Convert between the units of capacity and volume. ⇒ Convert between units of mass. ⇒ Convert between units of time. <p>C – Communication in Mathematics</p> <ul style="list-style-type: none"> ⇒ Use correct units for capacity, volume, mass and time. ⇒ Show working when calculating volume and time. <p>D – Reflection in Mathematics</p> <ul style="list-style-type: none"> ⇒ Explain the importance of findings in connection to real life. 	<p>Approaches to Learning:</p> <ul style="list-style-type: none"> • Use concepts and skills associated with measures. • Develop critical thinking. • Assess and evaluate own work. • Use scientific calculator. • Visualise volume and capacity. • Be organised, equipped and ready for work. <p>Environments, Community and service:</p> <ul style="list-style-type: none"> • Investigate: How much water is lost when a tap is left dripping? 	<p>A: Knowledge and Understanding (8) B: Investigating Patterns (8) C: Communication (6) D: Reflection and Evaluation (6) TOTAL: 28</p> <p>Assessments:</p> <ul style="list-style-type: none"> ▪ Mental Arithmetic Test. (A). ▪ Formal Test: Length, Area and Further Measurement. (A, C)