

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

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 13: Equations 1 Week</p> <p>Unit Question: How do we use equations to solve daily problems?</p> <p>Key Questions How do we:</p> <ul style="list-style-type: none"> ✓ Solve simple algebraic equations? ✓ Maintain the balance of an equation? ✓ Use inverse operations to solve equations? ✓ Use a flowchart to 'build up' and 'undo' expressions? ✓ Solve equations with one unknown? ✓ Expand and solve equations with repeated unknowns? 	<p>Students should have knowledge of/be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ⇒ Maintain the balance of an equation by using the correct algebraic manipulation. ⇒ Use inverse operations to solve equations. <p>C - Communication in Mathematics</p> <ul style="list-style-type: none"> ⇒ Use a flowchart to 'build up' and 'undo' expressions. ⇒ Solve equations with one unknown. ⇒ Expand and solve equations with repeated unknowns. <p>D - Reflection in Mathematics</p> <ul style="list-style-type: none"> ⇒ Solve simple algebraic equations by inspection and by trial and error. ⇒ Check answers by substituting back into the original equation. 	<p>Approaches to Learning: Approaches to learning:</p> <ul style="list-style-type: none"> • Performing basic operations. • Assess and evaluate own work. • Apply mathematical concepts. 	<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: Ratio and Proportion, and Equations. (A, C)