

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

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 6: Solving Equations ± 2 weeks</p> <p>Unit Question: Explain how scientists and mathematicians use equations to solve problems at to describe certain things.</p> <p>Key Questions</p> <ul style="list-style-type: none"> ✓ What is an equation? ✓ How do I solve equations by inspection or by trial and error? ✓ How do I maintain balance in equations? ✓ How do I use inverse operations to solve equations? ✓ How do I solve equations with two operations? ✓ How do I solve equations with repeated unknowns? ✓ How do I solve fractional equations? ✓ How do I solve fractional equations with an unknown in the denominator? 	<p>Students should have knowledge of/be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ⇒ Know what an equation is. ⇒ Solve an equation using inverse operations. <p>C - Communication in Mathematics</p> <ul style="list-style-type: none"> ⇒ Solve equations with two operations. ⇒ Solve equations with repeated unknowns. ⇒ Solve fractional equations. ⇒ Solve fractional equations with an unknown in the denominator. <p>D - Reflection in Mathematics</p> <ul style="list-style-type: none"> ⇒ Solve equations by inspection or by trial and improvement. 	<p>Approaches to learning:</p> <ul style="list-style-type: none"> • Performing basic operations; • Assess and evaluate own work; • Apply mathematical concepts; • Use ICT effectively. <p>Human Ingenuity:</p> <ul style="list-style-type: none"> • Discover how spreadsheets can be used to solve equations by trial and error. 	<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"> <input type="checkbox"/> Mental Arithmetic Test. (A) <input type="checkbox"/> Formal Test: Algebraic Expansion and Solving Equations (A, C)