

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

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 8: Algebra: Expressions and Evaluation 1 Week</p> <p>Unit Question: How do we use algebra to express given quantities?</p> <p>Key Questions: How do we:</p> <ul style="list-style-type: none"> ✓ Write and simplify simple algebraic expression with one and two variables? ✓ Substitute into simple algebraic expressions? ✓ Use key words in algebra? ✓ Add and subtract algebraic expressions? ✓ Use product notation? ✓ Use index notation? ✓ Write an algebraic expression in its expanded form? ✓ Simplify algebraic products? ✓ Use substitution to evaluate an algebraic expression? 	<p>Students should have knowledge of/be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ⇒ Substitute into simple algebraic expressions. ⇒ Add and subtract algebraic expressions. ⇒ Simplify algebraic products. <p>B – Investigating Patterns</p> <ul style="list-style-type: none"> ⇒ The Tower of Hanoi <p>C – Communication in Mathematics</p> <ul style="list-style-type: none"> ⇒ Write and simplify simple algebraic expressions with one and two variables. ⇒ Use key words in algebra such as numeral, variable, expression, term and coefficient. ⇒ Use product notation. ⇒ Use index notation. ⇒ Write an algebraic expression in its expanded form. ⇒ Use substitution to evaluate an algebraic expression. 	<p>Approaches to Learning:</p> <ul style="list-style-type: none"> • Performing basic operations. • Assess and evaluate own work. • Apply mathematical concepts. <p>Human Ingenuity:</p> <ul style="list-style-type: none"> • Investigate and discuss BaryCentres in Space. 	<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: Algebraic Expressions and Evaluations. (A, C)