

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

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 8: Indices ± 1 Week</p> <p>Unit Question: How difficult is it to work with very large and very small numbers?</p> <p>Key Questions:</p> <ul style="list-style-type: none"> ✓ How do I write algebraic products and quotients? ✓ How do I use the Index Laws? ✓ How do I use Expansion Laws? ✓ What are the laws for zero and negative indices? ✓ What is Scientific Notation? ✓ How do you round of to more than 1 significant figure? 	<p>Students should have knowledge of / be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ⇒ Know how to use the Index Laws. ⇒ Know how to use the Zero and Negative Index Laws. ⇒ Round numbers off to 1 and more significant figure. <p>B- Investigating Patterns</p> <ul style="list-style-type: none"> ⇒ Know multiples are the answers in the times tables. <p>C - Communication in Mathematics</p> <ul style="list-style-type: none"> ⇒ Know how to write algebraic products and quotients in index notation. ⇒ Know how to use the Expansion Laws. ⇒ Know how to write numbers in Scientific Notation and as ordinary decimal numbers. <p>D - Reflection in Mathematics</p> <ul style="list-style-type: none"> ⇒ Know how to check answers on a calculator when using Scientific Notation 	<p>Approaches to learning:</p> <ul style="list-style-type: none"> • Performing basic operations. • Assess and evaluate own work. • Apply mathematical concepts. • Use scientific calculator. <p>Human Ingenuity:</p> <ul style="list-style-type: none"> • Investigate the Russian Peasant multiplication method. 	<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).