

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

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 7: Percentages. 2 Weeks.</p> <p>Unit Question: How do we find percentages of given quantities and apply percentage change to real world problems?</p> <p>Key Questions</p> <ul style="list-style-type: none"> ✓ What is a percentage? ✓ How do we convert fractions and decimals into percentages? ✓ How do we convert percentages into fractions and decimals? ✓ How do we write one quantity as a percentage of another? ✓ How do we find a percentage of a quantity? ✓ How can the unitary method be used in percentage? ✓ How do we do calculations involving percentage increase and decrease? ✓ How do we use a multiplier to calculate percentage change? ✓ How do we calculate percentage profit or loss? ✓ How do we calculate discount? ✓ What is simple interest? ✓ How do we calculate simple interest? 	<p>Students should have knowledge of/be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ⇒ Know what a percentage is. ⇒ Write one quantity as a percentage of another. ⇒ Find a percentage of a quantity. ⇒ Use the unitary method to find a certain percentage of a whole amount. ⇒ Do calculations involving percentage increase and decrease. ⇒ Use a multiplier to calculate percentage change. ⇒ Calculate percentage profit or loss. ⇒ Calculate discount. ⇒ Know what simple interest is. ⇒ Calculate simple interest. <p>B – Investigating Patterns</p> <ul style="list-style-type: none"> ⇒ Convert fractions and decimals into percentages. ⇒ Convert percentages into fractions and decimals. <p>C – Communication in Mathematics</p> <ul style="list-style-type: none"> ⇒ Use a calculator to solve percentage problems. ⇒ Make sensible estimations. <p>D – Reflection in Mathematics</p> <ul style="list-style-type: none"> ⇒ Explain whether results make sense in the context of the problem. 	<p>Approaches to learning:</p> <ul style="list-style-type: none"> • Use a scientific calculator effectively. • Make interdisciplinary connections. • Compare and analyse equivalent ways of presenting values. • Problem solving. • Communicate terminology efficiently. • Use ICT effectively. • Investigating the election process 	<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: Decimal Numbers and Percentages. (A, C) ▪ Investigation: Finding percentage increase / decrease. Explanation of results. (B, C, D)