

MATHEMATICS – MYP 1(YEAR 7), TERM 2
AL JAZEERA ACADEMY
MIDDLE YEARS PROGRAMME, 2009-2010

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 6: Percentage. 2 weeks</p> <p>Unit Question: Are percentages catching your attention?</p> <p>Content/Key Questions:</p> <ul style="list-style-type: none"> ✓ What is a percentage? ✓ How do we convert between fractions, decimals and percentages? ✓ How do I find a percentage of an amount? ✓ How do I calculate percentage increase/decrease? ✓ How do I plot numbers on a number line? ✓ How do we shade regions of figures? 	<p>Students should have knowledge of / be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ➤ Write percentages as fractions & decimals, and vice versa; ➤ Find percentages of amounts with/without a calculator; ➤ Perform calculations involving percentage increase or decrease. <p>B- Investigating Patterns</p> <ul style="list-style-type: none"> ➤ Write the everyday examples and the use of percentages down. <p>C - Communication in Mathematics</p> <ul style="list-style-type: none"> ➤ Recognise & convert between fractions, decimals and percentages. <p>D - Reflection in Mathematics</p> <ul style="list-style-type: none"> ➤ Explain whether the results make sense in the context of the problem presented. 	<p>Approaches to learning:</p> <ul style="list-style-type: none"> *Communicate new terminology both verbally and in written form; *Use a scientific calculator effectively; *Compare and analyse equivalent ways of presenting values; *Understand assessment criteria; *Recognise the link between theory & practice. <p>Environments:</p> <ul style="list-style-type: none"> *Population demographics; *Fractions & percentages associated with Geography; *Percentages of pollutants in the atmosphere. <p>Human Ingenuity:</p> <ul style="list-style-type: none"> *The development of the calculator & computers due to the need for simplifying calculations; <p>Health and Social:</p> <ul style="list-style-type: none"> *Fractions & percentages of different vitamins, minerals, liquids, etc required for good health; *Heart rate before/after exercise (as a ratio/fraction). 	<p><u>A:</u> Knowledge & Understanding (8)</p> <p><u>B:</u> Investigating Patterns (8)</p> <p><u>C:</u> Communication in Mathematics (6)</p> <p><u>D:</u> Reflection in Mathematics (6)</p> <p><u>TOTAL: 28</u></p> <p>Assessments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Test on fractions, decimals and percentages (A, B). <input type="checkbox"/> Conducting a census in school. Important to use appropriate terminology effectively (A, C).