

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

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 14: Coordinate Geometry ± 2 Weeks</p> <p>Unit Question: How do we plot, sketch and find the equations of straight line graphs?</p> <p>Key Questions:</p> <ul style="list-style-type: none"> ✓ How do we plot coordinates on a Cartesian plane? ✓ How do I identify independent and dependent variables? ✓ How do I make a table of values? ✓ What is a linear relationship? ✓ How do I plot linear graphs? ✓ How can I use a table to find the equation of a line? ✓ How do I find the gradient or slope of a line? ✓ How do I draw a graph of a line by looking at the equation? ✓ How can I find equations for vertical and horizontal lines? ✓ What is meant by the general form of the equation of a line? ✓ How do I find the equation of a line from the graph? ✓ How do I determine whether points lie on a line? 	<p>Students should have knowledge of/be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ⇒ Plot coordinates on a Cartesian plane. ⇒ Identify independent and dependent variables. ⇒ Make a table of values. ⇒ Know what a linear relationship is. ⇒ Plot linear graphs. ⇒ Find the gradient or slope of a line. ⇒ Find equations for vertical and horizontal lines. ⇒ Know what is meant by the general form of the equation of a line ⇒ Know how to determine whether points lie on a line. <p>B- Investigating Patterns</p> <ul style="list-style-type: none"> ⇒ Use a table to find the equation of a line. <p>C - Communication in Mathematics</p> <ul style="list-style-type: none"> ⇒ Draw a graph of a line using the y-intercept and gradient from the equation $y = mx + c$. ⇒ Find the equation of a line from the graph. <p>D - Reflection in Mathematics</p> <ul style="list-style-type: none"> ⇒ Justify why a solution does or does not make sense in the given content when determining whether points lie on a line. 	<p>Approaches to learning:</p> <ul style="list-style-type: none"> • Be precise. • Organise work layout. • Work neatly. • Assess and evaluate own work. 	<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)