

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

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 15: The Geometry of Solids. 1 Week.</p> <p>Unit Question: How do solids occupy a third dimension and what are their properties?</p> <p>Key Questions How do we: <ul style="list-style-type: none"> ✓ Define a solid? ✓ Draw and recognise common solids? ✓ Recognise and distinguish between common polyhedra? ✓ Construct solids by using their nets? ✓ Draw rectangular solids using oblique and isometric grids? ✓ Construct block solids? </p>	<p>Students should have knowledge of/be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ⇒ Define a solid. ⇒ Recognise various solids and draw them accurately. ⇒ Recognise and distinguish between common polyhedra. ⇒ Recognise prisms with a uniform cross section. ⇒ Construct models of complex solids using their nets. <p>C - Communication in Mathematics</p> <ul style="list-style-type: none"> ⇒ Draw the different views of various block solids. ⇒ Draw rectangular solids using oblique and isometric grids. <p>D - Reflection in Mathematics</p> <ul style="list-style-type: none"> ⇒ Explain the importance of findings in connection to real life. 	<p>Approaches to Learning:</p> <ul style="list-style-type: none"> • Use of nets to construct solids. • Assess and evaluate own work. • Be organised, equipped and ready for work. <p>Human Ingenuity:</p> <ul style="list-style-type: none"> • Use Euler's formula to find a connection between faces, vertices and edges. 	<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: Polygons and The Geometry of Solids. (A, C)