

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

TOPICS	OBJECTIVES	AREAS OF INTERACTION	ASSESSMENT CRITERIA
<p>Topic 14: Polygons 1 Week</p> <p>Unit Question: How do properties of polygons help us find missing values in any shape?</p> <p>Key Questions: How do we: <ul style="list-style-type: none"> ✓ Define a Polygon? ✓ Classify triangles? ✓ Find angles of a triangle? ✓ Use properties of isosceles triangles to find angles? ✓ Recognise different polygons and their properties? ✓ Recognise convex and non convex (concave) polygons? ✓ Recognise regular polygons? ✓ Identify and classify quadrilaterals? ✓ Find angles of quadrilaterals? ✓ Determine the interior angles of n-sided polygons? ✓ Use deductive geometry to prove geometric facts? (Extension) </p>	<p>Students should have knowledge of/be able to:</p> <p>A – Knowledge and Understanding</p> <ul style="list-style-type: none"> ⇒ Classify triangles by simple inspection of sides and angles. ⇒ Recognise interior and exterior angle properties of triangles. ⇒ Recognise isosceles triangles. ⇒ Recognise different polygons and their properties. ⇒ Recognise convex and non convex (concave) polygons. ⇒ Recognise regular polygons. ⇒ Identify and classify quadrilaterals. ⇒ Determine the interior angles of polygons. <p>B – Investigating Patterns</p> <ul style="list-style-type: none"> ⇒ Determine the interior angles of n-sided polygons. <p>C – Communication in Mathematics</p> <ul style="list-style-type: none"> ⇒ Construct equations to find unknown angles in triangles, giving reasons. ⇒ Use properties of isosceles triangles to find angles, giving reasons. ⇒ Find the value of unknown angles in a quadrilateral, giving reasons. <p>D – Reflection in Mathematics</p> <ul style="list-style-type: none"> ⇒ Use deductive geometry to prove geometric facts. (Extension). 	<p>Approaches to Learning:</p> <ul style="list-style-type: none"> • Use concepts and skills associated with polygons. • Assess and evaluate own work. • Be organised, equipped and ready for work. • Develop critical thinking. 	<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)