

Integration of Areas of Interaction	Content	Assessments and MYP Criteria Assessed	Content Standards (Grades 7-9 grade math standards)	Essential Content Skills
Unit Themes/Topics: Story of Mathematics and the Predictive power of mathematics taught through Coordinate Geometry and Linear functions. Areas of Interaction Focus (A of I): Environment/Health and Social G Guiding Questions: How reliable are mathematical predictions about the future? Duration: 4 weeks.	Story of Linear Functions - Circles Slope Midpoint Pythagorean Theorem Systems of Linear Equations Multiple Representations of Functions Lines of Best Fit Point-Slope form of linear functions.	Quarterly Mini-Project: Find the centroid of a specific triangle and make connections to its use in our world. Criteria A, and C. Unit Test and Quizzes: Criteria A, and D	3.1 a 3.2 a 3.2 b 3.2 c 3.3 a 3.3 b 3.3 c 3.4 a 3.4 c	Use of Graphing Calculators. Read a and interpret graphs, find other equations in analytic charts, plot points, graph lines, mean is also a linear function, slope is also a linear expression.
Unit Themes/Topics: Inductive Reasoning versus deductive reasoning taught through Angle relationships and Polygon Sum. A of I Focus: Environmental G Guiding Questions: Inductive reasoning is an important tool in mathematics, how is it used for deductive purposes? Duration: 3 to 4 weeks.	The Story of Inductive Reasoning - Mathematics, the search for truths. Parallel lines cut by a transversal Sum of two angles and interior angles of a polygon. The triangle as a tool to understand and draw conclusions about relationships. Algebraic expressions as lengths of a right angle. Proving that a triangle is 180°.	Investigations: What is a case narrowing? This a clarity in understanding of a subject, the guiding question (focus). A or B focus is -How I am related to others D.		Generalize. Sketches, Use of Graphing Calculators in a clear form or in a process. Patterns, recursive patterns, Multiple ways of solving a problem of a question, using algebraic expressions, use of a protractor.
Unit Themes/Topics: Deductive Reasoning taught through triangle congruence and quadrilateral properties. A of I Focus: Homo Faber G Guiding Questions: How are mathematics and science different? How are they the same? Duration: 3 to 4 weeks.	Triangle congruence theorems AAS, SAS, SSS, HL, AAS Properties of Quadrilaterals Parallelogram, Trapezoids, Rhombus, Squares. Prove the Pythagorean Theorem. Right triangles.	Investigations: Alternative proof of Pythagorean theorem - Euclid's Proof. Criteria A, and C. "In action" problem to add to the guiding question. A or B. Homo Faber.	4.1 a 4.2 a 4.2 b	Generalize. Sketches, Mathematics as a logical expression, a representation of a real situation. Pythagorean Theorem.