Math_____ Vertical Planning: ATL Skills and the Learner Profile

	Grade 9	Grade 10	Grade 11	Grade 12
Organization Self-Management Time Management	Alg II – Car Price Assessment – October Time Management – All Units (Late Penalties)	Alg II – Car Price Assessment – October Time Management – All Units (Late Penalties) Ext Ma – Linear and Quadratic Equations - Sept Time Management – All Units	Ext Ma – Linear and Quadratic Equations - Sept Time Management – All Units Math SL IB Specimen Test – December Math Studies – Internal Assessment - January	Math SL IB Specimen Test – December Math Studies – Internal Assessment - January
Collaboration Working in Groups Accepting and analyzing others' viewpoints Negotiating differences with respect	Alg II Capsule Wardrobe Assignment Hand Span Assessment – September	Alg II Hand Span Assessment – September Ext Ma – Geometric Sequences – to fret or not to fret - March Linear Equations – Rich Eisen assessment - Sept	Ext Ma – Geometric Sequences – to fret or not to fret - March Linear Equations – Rich Eisen assessment - Sept Math SL Algebra Review Packet – September Math Studies –	Math SL Algebra Review Packet – September Math Studies – Linear Equations (Barbie Bungee Jump) Internal Assessment – Project Ideas

			Linear Equations (Barbie Bungee Jump) – September Internal Assessment – Project Ideas	
Communication Expressing ideas clearly Awareness of type of medium/audience Expressive use of Language	Alg II Solving equations and inequalities – September Assessments (criteria C)- Other ways of presenting ideas	Alg II Solving equations and inequalities – September Assessments (criteria C)- Other ways of presenting ideas Ext Ma – Polynomials – even/odd assessment - October	Ext Ma – Polynomials – even/odd assessment - October Math SL Rational Function Review - October Math Studies – Bivariate Analysis - November Triangles - March	Math SL Rational Function Review - October Math Studies – Bivariate Analysis - November Triangles - March
Information Literacy Accessing information Selecting and organizing information Referencing	Alg II Assessments (out of class investigation) including Car Price Assessment - October	Alg II Assessments (out of class investigation) including Car Price Assessment - October Ext Ma – Polynomials – Even Odd Assessment - October Linear Equation – Rich Eisen assessment - September	Ext Ma – Polynomials – Even Odd Assessment - October Linear Equation – Rich Eisen assessment - September Math SL – Mathematical Exploration - February Math Studies –	Math SL – Mathematical Exploration - February Math Studies – Bivariate Analysis - November Internal Assessment - January

			Bivariate Analysis - November Internal Assessment - January	
Reflection Self-Awareness Self-Evaluation	Alg II "Post-It" Reflection - ongoing Assessments (criteria D)- What are sources of error, what other ways to solve, what are applications to other areas. Presumed Knowledge (Ch 1-2)- what do I know, what do I need to review	Alg II "Post-It" Reflection - ongoing Assessments (criteria D)- What are sources of error, what other ways to solve, what are applications to other areas. Presumed Knowledge (Ch 1-2)- what do I know, what do I need to review Ext Ma – Sine Waves – Sum of Sine Waves Assessment - February Polynomials – Exploration Assessment - October	Ext Ma – Sine Waves – Sum of Sine Waves Assessment - February Polynomials – Exploration Assessment - October Math SL – Semester Exam Prep – January Math Studies – Linear Regressions – November	Math SL – Semester Exam Prep – January Math Studies – Linear Regressions - November
Thinking Creative thinking Critical thinking Analytical Generating Ideas Planning	Alg II Perm & Comb. - Sept Projectiles Assessment (real world problem– March	Alg II Perm & Comb. - Sept Projectiles Assessment - March Ext Ma –	Ext Ma – Exponential Equations – the nature of the infinite and infinitesimals - March	Math SL – Mathematical Exploration – February

Identifying problems/Problem Solving Creating novel solutions Applying knowledge		Exponential Equations – the nature of the infinite and infinitesimals - March Sine Waves – Sum of Sine Waves assessment - February Linear Equations – Rich Eisen assessment - September Geometric Sequences – to fret or not to fret - March Functions – Even/Odd assessment - October Trig – Solving Complex Trig Equations - December Polynomials – Ever Decreasing Circles - October	Sine Waves – Sum of Sine Waves assessment - February Linear Equations – Rich Eisen assessment - Sept Geometric Sequences – to fret or not to fret - March Functions – Even/Odd assessment - October Trig – Solving Complex Trig Equations - December Polynomials – Ever Decreasing Circles - October Math SL – Mathematical Exploration – February Graphs of Everything - October Math Studies – Internal Assessment – Project idea generation - September Logic - December Quadratic Equations – Water Balloon Toss - October	Graphs of Everything - October Math Studies – Internal Assessment – Project idea generation - September Logic - December Quadratic Equations – Water Balloon Toss - October Internal Assessment - January Bivariate Analysis - November Linear Equations – Barbie Bungee Jump - September

			Internal Assessment - January Bivariate Analysis - November Linear Equations – Barbie Bungee Jump – September	
Transfer Making connections Inquiring in different contexts	Alg II Polynomials Assessment - February Normal Distribution – April	Alg II Polynomials Assessment - February Normal Distribution – April Ext Ma – Polynomials – Even Odd Assessment - October Sine Waves – Sum of Sine Wave assessment - February	Ext Ma – Polynomials – Even Odd Assessment - October Sine Waves – Sum of Sine Wave assessment – February Math SL – Vectors – March Math Studies –	Math SL – Vectors - March Math Studies – Quadratic Equations – Water Balloon Toss - October Linear Equations – Barbie Bungee Jump - September

			Quadratic Equations – Water Balloon Toss - October Linear Equations – Barbie Bungee Jump – September	
Affective Skills Mindfulness Perseverance Emotional Management Self-Motivation Resilience	Alg II – Polynomials Assessment - February	Alg II – Polynomials Assessment - February Ext Mat - Sine and Cosine In Class Investigation - February	Ext Mat - Sine and Cosine In Class Investigation – February Math SL – Chain Rule of Differentiation – November Math Studies Internal Assessment - January	Math SL – Chain Rule of Differentiation – November Math Studies Internal Assessment - January

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