## IBMYP Subject Overview 2019-2020

Subject Area: Math Course: Algebra I MYP Level: 2 & 3 Teacher(s): Wilcox

Time Frame (Dates)	Unit Title and Topic (*=interdisciplina ry connection; @=Action)	MYP Objectives	State Standards	Key Concept	Related Concepts	Global Context	Statement of Inquiry	MYP Assessment Task & ATL Focus	MYP Criteria	Learner Profile Focus
Sept- Oct	Order In the Court  (Integers, Fractions, Expressions, Pre- Algebra Prerequisites)  * Arts	A. Knowing and Understanding (Mid-Year Exam) C Communicating	A.1. A.2.	Relationship s the connection s and association s between properties	Pattern, Representati on	Science and Technical Innovation - how humans use their understanding of scientific principles  Exploration: Products, processes and solutions.	Patterns represent relationshi ps between products, processes and solutions	Order of Ops Fashion Show Mid-Year Exam ATL Communicati on, Social, Self Management	A. Knowing and Understanding C Communication	Risk Takers
Oct- Dec	Balancing Act (Equations and Inequalities)	A Knowing and Understanding (Mid-Year Exam) C. Communicating D. Applying math in real world context	A.1, A.4	principles used to build arguments and reach conclusions	Equivalence, justification, model	Scientific and technical innovation  Exploration: Mathematical puzzles, principles and discoveries	Modeling justifies equivale nces by discovery and solving math	Write the equation of a word problem comparing money in the bank. Fill in the blanks from the answer to the equation: If Johnny	A. Knowing and Understanding  C. Communicating  D. Applying math in real world context	Balanced

							puzzles	works hours and Jimmy works hours rhen they will each have \$ in the bank.  Mid-Year Exam  ATL Critical Thinking		
Dec- Jan	Step In Time  (Linear Equations)  * Science	A. Knowing and Understanding (Mid-Year Exam)  C Communicating  D Applying math in real world context	A.4, A5, A.6, A.7	the shape and underlying structure of an entity or piece of work	Measurement Model Justification Pattern	Orientation in space and time  Exploratio n: Scale, duration, frequency and variability	Form models patterns when drawing to scale.	Students will research buildings, choose one and determine the slope of the line from the top of the building to where stairs would be. They will determine the number of steps.  Mid-Year Exam  ATL Social, Research	A. Knowing and Understanding  C Communicating  D Applying math in real world context	Inquirer

Jan- Feb	Systematic (Systems of Equations)	B Investigating Patterns  C Communication	A.4, A.5 A.9	Relationsh ips-affecting large networks and systems	Representatio n, system, equivalence	Personal and cultural expression  Exploration: Artistry, craft, creation, beauty	Representing systems shows equivale nce by exploring relations hips and art.	Draw systems and make a stained glass window, organize similar equations and find solutions ATL Literacy Skills	C Communicating	Knowled geable
Feb-March	The Power of Powers  (Polynomial computation)	B. Investigating Patterns  C Communicating	A.2	Relationshi ps, Logic	Patterns Model	Orientation in time and space because they will explore relationships between, and interconnecte dness of global perspectives.  Exploration: Natural and human landscapes and resources	Patterns represent relationshi ps that connect to nature and human resources.	A power point display showing examples of patterns either in nature or man made with an explanation of if they are a benefit or hindrance to our world Students will present their power point to the class.  ATL Selfmanagement, communicati on	B. Investigating patterns  C Communicating	Open Minded

creativity; our appreciation of the aesthetic  aesthetic  creativity; our appreciation  of the aesthetic  Communicate of the state of the communicate of the co
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## Support of Personal Project:

Students reflect on their achievement and make changes to maximize success. They must have excellent management and organizational skills. Students are encouraged to be advocates for themselves and prepare projects within the designated time frame.