Math

Unit	Key Concepts	Related Concepts	Global Contexts	Statement of Inquiry	Objectives & Strands	ATL Skills	Content	Summative Assessment(s)	Learner Profile	International-mindedness	Service Learning
MYP Year 1 (6th Grade) Math 6											
September to October											
Integers & Coordinate Plane	Logic	Models, Justification	Identity and Relationships: Explore and choose how to express real world situations with integer models on their conceptual level.	Using reasoning and logic, students can identify integer relationships and justify this reasoning with models of integer relationships.	A: i., ii., iii. D: i.	Self-management and thinking skills	6.3 (a-c) 6.4 6.6 (a-c) 6.8 (a-b)	Math 6 Unit Test	Balanced, Open-minded		
October to December											
Operations with Fractions and Practical Problems with Decimals & Comparing Fractions, Decimals, and Percents.	Relationships	Equivalence, Representation	Identity and Relationships: Explore and choose how to model real world situations using fractions, decimals and percents.	Using reasoning and logic, students will identify fractional relationships and justify with models.	A: i., ii., iii. D: i.	Self-management and thinking skills	6.5 (a-b) 6.5 c 6.2 (a-b)	Math 6 Unit Test Food Pyramid Project	Balanced, Open-minded		
December to January											
Ratio and Proportional Reasoning	Relationships	Equivalence, Representation	Identity and Relationships: Explore and choose how to model real world situations using ratios and proportional reasoning.	Using reasoning and logic, students will identify and justify ratios and proportional reasoning with representations.	B: i., ii., iii. D: i., ii., iii.	Thinking skills	6.1 6.12 (a-d)	Math 6 Unit 3 Quiz and Test	Thinkers		
January to February											
Equations & Inequalities	Logic	Simplification, Equivalence	Identity and Relationships: Explore and choose how to model real world situations using equations and inequalities.	Using reasoning and logic, students will use their understanding of balance to simplify equations and inequalities.	B: i., ii., iii. C: i., ii., iii., iv., v.	Self-Management skills	6.13 6.14 (a-b)	Math 6 Unit Quiz and Test	Balanced		
March to April											
Geometry 1-2: Perimeter, Area, Circles, Polygons & Congruence	Relationships	Space, Approximation	Scientific and technical innovation: Mathematical puzzles, principles and discoveries	Using a logical process involves the use of patterns and approximation helps us to understand the world.	A: i., ii., iii. D: i., ii., iii., v.	Research skills	6.7 (a-c) 6.8b-polygons 6.9	Math 6 Quiz	Reflective		
April to May											
Circle Graphs and Measures of Center	Communities	Models, Representation	Identities and relationships: lifestyle choices	Using data and representations helps develop an understanding of individuals and society.	C: i., ii., iii., iv. D: i., ii., iii., iv., v.	Research skills	6.10 (a-c) 6.11 (a-b)	Survey Project	Inquirers		
June											
Decision Making	Global interactions	Systems, Representation	Identities and relationships: Physical, psychological and social development; transitions; health and wellbeing; lifestyle choices	Using data and representations helps develop an understanding of an individual's place in society.	C: i., ii., iii., iv., v. D: i., ii., iii., iv., v.	Communication and Research skills	6.1-6.14	Budget Project	Communicators		
MYP Year 1-2 (6th-7th Grade) Math 7											
September to October											
Rational Number Sense	Logic	Approximation, Equivalence	Scientific and technical innovation	Solving mathematical puzzles requires logic and may use approximation to determine equivalence.	A: i., ii., iii. B: i., ii., iii.	Self-management and thinking skills	7.2 7.1 d, e	Unit Test	Thinkers		

Math

Unit	Key Concepts	Related Concepts	Global Contexts	Statement of Inquiry	Objectives & Strands	ATL Skills	Content	Summative Assessment(s)	Learner Profile	International-mindedness	Service Learning
November											
Expressions, Equations, and Inequalities	Relationships	Equivalence, Models	Fairness and development: Inequality, difference and inclusion	Models can be used to show relationships comparing expressions.	A: i., ii., iii. B: i., ii., iii.	Self-management and thinking skills	7.11 7.12 7.13	Unit Test Pattern Recognition	Communicators		
November to December											
Proportional Reasoning	Relationships	Representation, Justification	Personal and Cultural Expression: Metacognition and abstract thinking	In different cultures, relationships and customs are represented through a variety of traditions and abstract thinking.	A: i., ii., iii. C: i., ii., iii., iv., v.	Thinking skills	7.3 7.5	Math Poster	Open-Minded	Students cook a meal to meet from another country and scale the recipe from 4 to 10 people.	
January											
Slope and Linear Functions	Relationships	Space, Representation	Orientation in Space and Time: Scale, duration, frequency and variability	Relationships between two variables can be represented across space and time.	A: i., ii., iii. D: i., ii., iii., iv., v.	Communication and Thinking skills	7.1	Unit Test	Communicators		
February											
Probability and Statistics	Logic	Representation, Patterns	Globalization and Sustainability: Commonality, diversity and interconnection	Logic can be used to determine patterns and create representations with data.	A: i., ii., iii. B: i., ii., iii.	Research and Thinking skills	7.8 7.9	Unit Test	Inquirers		
March to April											
Volume and Surface Area	Relationships	Space, Quantity	Orientation in Space and Time: Scale, duration, frequency and variability	Relationships between shapes and spaces that vary in predictable patterns.	A: i., ii., iii. C: i., ii., iii., iv.	Research and Thinking skills	7.4	Unit Test	Balanced		
April											
Powers of 10 and Scientific Notation	Form	Quantity, Equivalence	Orientation in Space and Time: Scale, duration, frequency and variability	Equivalences exist between different forms and quantities of numbers.	A: i., ii., iii. B: i., ii., iii. C: i., ii., iii., iv.	Communication and Thinking skills	7.1 a, b, c	Unit Test	Inquirers		
May											
Quadrilaterals	Form	Patterns, Shape	Scientific and technical innovation: mathematical puzzles	Patterns exist among a variety of shapes and forms.	A: i., ii., iii. B: i., ii., iii. C: i., ii., iii., iv.	Communication and Thinkings skills	7.6	Unit Test	Knowledgeable		
June											
Transformations	Relationships	Change, Representation	Orientation in Space and Time: Scale, duration, frequency and variability	Changes in and relationships among data can be represented in graphs.	A: i., ii., iii. D: i., ii., iii., iv., v.	Research and Thinking skills	7.7	Unit Test	Reflective		
MYP Year 1-3 (6th-8th Grade) Pre-Algebra											
September											
Integer Operations and Coordinate Plane	Logic	Models, Justification	Identity and Relationships	Logic can be used to identify integer relationships and justify this reasoning with models of integer relationships.	A: i., ii., iii. D: i.	Thinking and Self-Management skills	6.3 6.4/7.1d/7.1e/8.3 6.6/7.2 6.8	Unit Test	Thinkers		
October to November											
Expressions, Equations, and Inequalities	Relationships	Models, Equivalences	Fairness and development: Inequality, difference and inclusion	Models can be used to show relationships comparing expressions.	A: i., ii., iii. B: i., ii., iii.	Research and Self-Management skills	6.5 6.13/ 7.12 7.11/ 8.14 6.14/ 7.13 8.17 8.18	Unit Test Pattern Recognition Activity	Inquirers		
December to January											

Math

Unit	Key Concepts	Related Concepts	Global Contexts	Statement of Inquiry	Objectives & Strands	ATL Skills	Content	Summative Assessment(s)	Learner Profile	International-mindedness	Service Learning
Ratios, Proportional Reasoning & Linear Functions	Logic	Models, Justification	Identity and Relationships	Logic identify fraction multiplication/division relationships and justify this reasoning with models of multiplication/division of fractions.	A: i., i.i, iii D: i.	Research and Self-Management skills	6.1 6.12 7.3/ 8.4 6.9/7.5 7.10/ 8.16 8.15	Functions Test	Knowledgeable		
February											
Real Numbers and Coordinate Plane and Transformation	Logic	Patterns, Justification	Scientific and technical innovations	Discovering mathematical relationships helps us to understand patterns in numbers that occur within our environment.	A: i., ii., iii. C: i., ii., iii., iv. D: i., ii., iii., iv., v.	Communication and Thinking Skills	6.2 7.1 8.1 8.2	Unit Test	Reflective		
March to May											
Geometry	Logic	Models, Justification	Identity and Relationships	Logic can identify fraction multiplication/division relationships and justify this reasoning with models of multiplication/division of fractions.	A: i., i.i, iii D: i.	Research and Self-Management skills	6.7ab 7.4/ 8.6 6.7c/ 8.10 8.8 7.6 8.5 7.7, 8.7 8.9	Geometry Test	Inquirers		
May											
Probability	Relationships	Change, Patterns	Orientation in Space and Time: Scale, duration, frequency and variability	Probability can be used to determine patterns and change in real-world data.	A: i., ii., iii. C: i., ii., iii., iv., v. D: i., ii., iii., iv., v.	Communication, Social, and Thinking skills	7.8 8.11	Unit Test	Balanced		
June											
Data and Statistics	Relationships	Models, Validity	Fairness and Development: Inequality, difference and inclusion	Models can be used to determine the validity of relationships between and show inequalities.	A: i., ii., iii. B: i., ii., iii.	Communication, Self-Management, and Research skills	6.11 8.12 6.10 7.9 8.13	Unit Test Car Project	Reflective		
MYP Year 2-3 (7th-8th Grade) Algebra and Intensified Algebra											
September											
Expressions and Laws of Exponents/ Functions	Logic	Simplification, Equivalence	Scientific and technical innovation: mathematical puzzles	Logic can be used to simplify mathematical expressions and use equivalences to find exponents.	A: i., ii., iii. B: i., ii., iii.	Thinking and Research skills	8.14 A.1 (a-b); A.2 (a) 8.15 A.7 (a -e	Unit Test Pattern Recognition Task	Inquirers		
October to November											
Writing and Graphing Linear Equations/Functions	Relationships	Change, Representation	Identities and Relationships	Decision-making can be improved by using a model to represent relationships.	A: i., ii., iii. B: i., ii., iii.	Thinking and Research skills	8.16 A.6 (a,b,c); A.7(c, d,f); A. 8; A.9	Unit Test	Communicators		
December											
Systems of Equations	Logic	System, Justification	Scientific and Technical Innovation: Mathematical puzzles	Systems of equations provide a tool for making informed choices about human technical innovation by allowing us to see how multiple scenarios interact.	C: i., ii., iii., iv., v. D: i., ii., iii., iv., v.	Communication and Research skills	A.4 (d, e)	Unit Test	Open-minded		
January											
Linear Inequalities and Systems of Inequalities	Relationships	Representations, Change	Identities and Relationships: reasoning	Discovering mathematical relationships can lead to a better understanding of how environmental systems change.	A: i., ii., iii. B: i., ii., iii.	Thinking and Research skills	A.5 (a - d)	Unit Test	Inquirers		
January											

Math

Unit	Key Concepts	Related Concepts	Global Contexts	Statement of Inquiry	Objectives & Strands	ATL Skills	Content	Summative Assessment(s)	Learner Profile	International-mindedness	Service Learning
Radicals	Logic	Simplification, Representation	Scientific and Technical Innovation: Mathematical puzzles	Using logic can solve and simplify mathematical puzzles, especially those representing 3D shapes.	A: i., ii., iii. B: i., ii., iii.	Thinking and Research skills	A.3 (a - c)	Unit Test	Thinkers		
February to March											
Polynomials and Factoring	Logic	Models, Equivalence	Identities and Relationships: reasoning	Using logic and models the equivalence between different expressions can be demonstrated.	C: i., ii., iii., iv., v. D: i., ii., iii., iv., v.	Communication and Research skills	A.2 (b, c)	Unit Test	Thinkers		
April to May											
Quadratics	Relationships	Models, Patterns	Fairness and Development: Inequality, difference and inclusion	Relationships between quantities can be modeled revealing predictable patterns.	A: i., ii., iii. D: i., ii., iii., iv., v.	Communication, Research and Thinking skills	A.4 (b,e); A.7 (a-f); A.9	Unit Test	Knowledgeable		
June											
Geometry	Form	Space, Patterns	Orientation in Space and Time: Scale, duration, frequency and variability	Shapes form consistent patterns across space and time.	A: i., ii., iii. D: i., ii., iii., iv., v.	Communication and Thinking skills	8.9; 8.5 8.6	Unit Test	Communicators		
MYP Year 3 (8th Grade) Geometry											
September											
Geometry Basics & Logic	Logic	Equivalence, Generalization	Personal and Cultural Expression: Metacognition and abstract thinking	Different groups take advantage of the vague generalizations to build logical equivalences.	A: i., ii., iii D: i., ii., iii., iv., v.	Communication, Social, and Research and Thinking skills	G.1	Advertising Slogan Analysis Unit Test	Communicator		
October											
Introduction to Proofs	Logic	Validity, Generalization	Scientific and Technical Innovation: Mathematical puzzles	Logic can test the validity of an argument and lead to generalized conclusions.	A: i., ii., iii. C: i., ii., iii.	Self-Management and Thinking skills	G.1	Unit Test Proofs	Knowledgeable		
October											
Parallel Lines	Form	Space, Representation	Orientation in Space and Time: Scale, duration, frequency and variability	Understanding representations in a space can lead to practical designs.	A: i., ii., iii. B: i., ii., iii. C: i., ii., iii.	Communication and Thinking skills	G.2, G.4	Discovering Parallel Lines Unit Test Proofs	Thinkers		
November											
Congruent Triangles	Logic	Patterns, Validity	Scientific and Technical Innovation: Mathematical puzzles	Logic can be used to test the validity of mathematical puzzles.	A: i., ii., iii. B: i., ii., iii. D: i, ii, iii, iv, v.	Thinking Skills	G.6	Unit Test Why "SSA" doesn't work presentation	Thinkers		
November											
Relationships in Triangles	Logic	Generalization, Validity	Personal and Cultural Expression: Metacognition and abstract thinking	Logic can test the validity of an argument and lead to generalized conclusions.	A: i., ii., iii. B: i., ii., iii.	Self-Management and Thinking skills	G.4, G.5	Discovering Triangle Inequalities Unit Test	Reflective		
December											
Similar Triangles	Form	Representation, Space	Scientific and Technical Innovation: Mathematical principles	Using mathematical principles can determine the size of representations and forms across space.	A: i., ii., iii. C: i., ii., iii., iv., v.	Thinking and Research skills	G.7	Unit Test Proofs	Inquirers		
January											
Right Triangles & Trigonometry	Form	Representation, Space	Scientific and Technical Innovation: Mathematical principles	Using mathematical principles can determine the size of representations and forms across space.	A: i., ii., iii. B: i., ii., iii. D: i., ii., iii., iv., v.	Thinking and Research skills	G.8	Discovering Trig & Converse of Pythagorean Theorem Unit Test Real World Trig Project	Open-minded		
February											

Math

Unit	Key Concepts	Related Concepts	Global Contexts	Statement of Inquiry	Objectives & Strands	ATL Skills	Content	Summative Assessment(s)	Learner Profile	International-mindedness	Service Learning
Quadrilaterals & Polygons	Relationships	Patterns, Generalization	Globalization and Sustainability: Commonality, diversity and interconnection.	Relationships and connections between different types of shapes have consistent patterns and can be generalized.	A: i., ii., iii. B: i., ii., iii. C: i., ii., iii., iv., v.	Communication and Thinking skills	G.9, G.10	Discovering Properties of Polygons Unit Test Proofs	Communicators		
March											
Circles	Logic	Representation, Generalization	Orientation in Space and Time: Scale, duration, frequency and variability	Logic can be used to determine size of circles representations at different sizes and make generalizations.	A: i., ii., iii. B: i., ii., iii. C: i., ii., iii., iv., v.	Communication, Research and Thinking skills	G.11, G.12	Unit Test Proofs	Balanced		
April											
Area and Volume	Form	Quantity, Space	Scientific and Technical Innovation: Adaptation, ingenuity and progress	Dating three-dimensional objects by changing their quantities and forms can solve practical problems.	A: i., ii., iii. D: i., ii., iii., iv.	Communication, Research and Thinking skills	G.13, G.14	Unit Test Origins & Explanations of Area & Volume Formulas	Thinkers		
May											
Coordinate Geometry & Transformations	Relationships	Space, Representation	Orientation in Space and Time: Scale, duration, frequency and variability	Relationships exists between shapes across different scales and spaces.	A: i., ii., iii. C: i., ii., iii., iv., v.	Communication, Research and Thinking skills	G.3	Discovering Distance, Midpoint, and Equation of a Circle Unit Test Coordinate Proofs	Inquirers		
June											
Constructions	Form	Change, Patterns	Personal and cultural expression: Products, systems and institutions	Design in changing products benefits with attention to form and patterns.	A: i., ii., iii. D: i., ii., iii., iv.	Communication, Research and Thinking skills	G.4	Unit Test Construction Project	Principled		