

Year	Unit Title	Key Concept	Related Concepts	Global Contexts	Statement of Inquiry	MYP Assessment Criteria	ATL
3	Numbers (Integers, Fractions, Percentage)	Logic	Equivalence, Quantity.	Fairness and development	Logic is a powerful tool to determine equivalency, denote inequality and distribute finite quantities.	A: Knowing and understanding, B: Investigating patterns, C: Communicating, D: Applying mathematics in real-life contexts	I. Communication skills, III. Organization skills, IV. Affective skills, V. Reflection skills, VIII. Critical thinking skills, X. Transfer skills
3	Patterns and Relations (Ratios, Rates & Proportions, Solving linear equations & Linear Relations)	Relationships	Pattern, Space.	Scientific and technical innovation	Relationships and consequences become clearer through numerical and spatial patterns.	A: Knowing and understanding, B: Investigating patterns, C: Communicating	I. Communication skills, III. Organization skills, IV. Affective skills, V. Reflection skills, VIII. Critical thinking skills, X. Transfer skills
3	Spatial Sense (Pythagorean relationships, Surface Area and Volume of 3D objects)	Form	Measurement, Model, Space.	Globalization and sustainability	Understanding of form, models and spatial structure helps consumers to make environmental choices.	A: Knowing and understanding, B: Investigating patterns, C: Communicating, D: Applying mathematics in real-life contexts	III. Organization skills, V. Reflection skills
3	Statistics and Probability (Central Tendency and Probability)	Logic	Justification.	Scientific and technical innovation	Logic can be used to justify the likelihood of an outcome in a game or puzzle.	D: Applying mathematics in real-life contexts	II. Collaboration skills, III. Organization skills
4	Number Connections (Rational numbers, Operations and Exponents)	Relationships	Generalization, Model, Pattern.	Fairness and development	Understanding how relationships help us discover patterns all around us, enable us to create models and lead a more hopeful future.	A: Knowing and understanding, B: Investigating patterns, C: Communicating, D: Applying mathematics in real-life contexts	I. Communication skills, VIII. Critical thinking skills, IX. Creative thinking skills, X. Transfer skills
4	Outdoor Preparedness and Survival	Connections	Mathematics: Measurement. Language and literature: Purpose. Sciences: Environment. Physical and health education: Choice.	Identities and relationships	Nature-based learning can lead to purposeful connections that deepens knowledge and promotes individual readiness to pursue outdoor adventures.	.interdisciplinary A: Disciplinary grounding, B: Synthesizing, C: Communicating, D: Reflecting; Mathematics: C: Communicating, D: Applying mathematics in real-life contexts; Language and literature: C: Producing text, D: Using language	I. Communication skills, II. Collaboration skills, VIII. Critical thinking skills, X. Transfer skills
4	Polynomials + Equations	Relationships	Measurement, Model.	Orientation in space and time	Relationships exist between algebraic models and measurement when making decisions about space, resources and cost.	A: Knowing and understanding, B: Investigating patterns, C: Communicating, D: Applying mathematics in real-life contexts	I. Communication skills
4	Scale Factors and Similarity	Form	Measurement, Model, Representation.	Scientific and technical innovation	Various forms of representation allow students to measure and model the natural world in which we live by producing scale diagrams.	D: Applying mathematics in real-life contexts	VIII. Critical thinking skills, IX. Creative thinking skills
4	Statistics and Financial Literacy	Logic	Justification, Quantity, Representation.	Personal and cultural expression	Planning the party of the century includes justifying your budget given your set of data collected, what the representations show and how your quantities affect your overall party and costs.	C: Communicating, D: Applying mathematics in real-life contexts	VI. Information literacy skills, VIII. Critical thinking skills
5 AW	Data Analysis: Graphing and Central Tendency	Communication	Model, Representation.	Fairness and development	It is the responsibility of those presenting data to ensure the data is represented accurately and authentically, and it is the responsibility of readers to read the information critically.	C: Communicating	I. Communication skills
5 AW	Experimental Probability in Games	Logic	Pattern.	Identities and relationships	Mathematics can break down any decision into a logical problem of probability.	B: Investigating patterns	VIII. Critical thinking skills

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5	Exponents and Radicals - Ch 4	Systems	Pattern, Simplification.	Globalization and sustainability	Simplification of patterns within a system can be used to explore population changes.	A: Knowing and understanding, C: Communicating	VIII. Critical thinking skills
5	Linear Relations and Functions (Ch 6 & 7)	Relationships	Model, Representation.	Personal and cultural expression	The beauty of linear relationships can be crafted and represented through a variety of models using your own artistry.	A: Knowing and understanding, D: Applying mathematics in real-life contexts	I. Communication skills, VIII. Critical thinking skills, IX. Creative thinking skills, X. Transfer skills
5	MA 10 Ch 3 Trigonometry	Logic	Justification, Measurement, Model.	Scientific and technical innovation	My understanding of logic and measurement allows me to discover and justify my own designs and models.	A: Knowing and understanding, D: Applying mathematics in real-life contexts	III. Organization skills, IV. Affective skills, V. Reflection skills, VIII. Critical thinking skills, IX. Creative thinking skills, X. Transfer skills
5	Polynomials - Chapter 5	Form	Model, Simplification.	Personal and cultural expression	Modelling different forms of polynomials to inform others from their own creative perspective.	A: Knowing and understanding, C: Communicating	I. Communication skills
5	Systems of Equations (Ch 8 & 9)	Relationships	Model, Simplification.	Scientific and technical innovation	Different methods and models are used to find relationships between systems to simplify problems.	A: Knowing and understanding, D: Applying mathematics in real-life contexts	VI. Information literacy skills
5 AW	AW 10 Earning an Income	Systems	Equivalence, Model.	Identities and relationships	Models of income can be made that lead to important life-impacting decisions around work, spending, and lifestyle.	A: Knowing and understanding, C: Communicating, D: Applying mathematics in real-life contexts	VIII. Critical thinking skills, IX. Creative thinking skills, X. Transfer skills
5 AW	AW 10 Measurement	Form	Measurement, Model, Representation, Space.	Personal and cultural expression	Designers and Engineers must consider the constraints over limited resources and consumer desires when designing new products, and to collaborate on this design on a global scale, humans need to understand and communicate effectively using many different representations of the same concept.	D: Applying mathematics in real-life contexts	VIII. Critical thinking skills
5 AW	AW 10 Unit Pricing & Currency Exchange	Logic	Equivalence, Simplification.	Globalization and sustainability	In order to survive in a local and global economy, citizens must make smart, logical, sound decisions when allocating their finite life resources.	A: Knowing and understanding, C: Communicating, D: Applying mathematics in real-life contexts	VI. Information literacy skills
5 AW	AW Math 10 Trigonometry	Form	Measurement, Representation, Space.	Orientation in space and time	Urban planning and development depends on applications of trigonometric relationships.	A: Knowing and understanding, B: Investigating patterns, C: Communicating	III. Organization skills, IV. Affective skills