MYP Subject Area: Mathematics								
Unit Title	**Key Concept**	**Related Concepts**	**Global Context**	**Statement of Inquiry**	**Subject Objectives & Strands**	**Overview of Summative Assessment Task**	**Approaches to Learning Skill Clusters**	**Content**
Experiencing Relationships: Ratios and Proportions	Relationships	Justification Simplication	Identities and Relationships	Ratios and proportions can simplify complex relationships in order to justify decisions.	C. Communicating Use appropriate mathematical language (i),Use different forms of mathematical representation (ii), Organize information in logical structure (iv) D.Applying Mathematics in real life Select appropriate mathematical strategies (ii), Apply strategies successfully (iii),	Use proportions to simplify a complex relationship and justify a decision (Is it fair? Sharing expenses with a roommate)	Communication, Collaboration, Critical Thinking	Rate/ unit rate Proportions Percents Applying percents
Number Sense: Order From Chaos (Integers, Exponents)	Communication	Justification Simplification Order Quantity	Identities and Relationships	People communicate to justify, simplify and to keep order.	B. Investigating Patterns - describe patterns as relationships (ii) C. Communicating - Organize information in logical structure (iv)	Create your own Integer Problem	Self-Management- Organization Social- Collaboration	Word Problems Order of Operations, Square root, Decimals GCF/LCM Fractions Integers
Expressions and Equations: Finding the Point	Relationships	Pattern Change Connections Equivalence	Fairness and Development	Students make connections providing multiple representations that illustrate change and patterns.	B. Investigating Patterns - Verify whether the pattern works (iii) D. Applying mathematics in real-life contexts - Describe how solution makes sense (v)	Inequality word problems	Thinking- Critical Thinking Self-management	Combining Terms One and Two-step equations Multi-step equations Slope and Linear Equations Translations
Geometry: Scaling the Surface	Systems	Innovation, Form	Scientific and Technical Innovations	Innovation and form are depended on one's understanding of 3D figures to create a functional system	D. Applying mathematics in real-life contexts - Identify relevant elements of authentic real-life situations (i)	Creating 3D building using nets and scale drawing	Thinking- Creative	Area/Circumference 2D and 3D modeling Volume Surface Area Angles and Measurement
Statistics and Probability: What Do You Expect?	Form	Justification Logic Relationships	Scientific and Technical Innovations	Mathematical logic and systems can help us make predictions about what will happen and to justify the outcomes.	A. Knowing and Understanding - Select appropriate mathematics when solving problems in familiar and unfamiliar situations (i) C. Communicating - Move between different forms of mathematical representation (iii)	Standard of living graphing	Social- Collaboration Communication	Graphs Theoretical Experimental Mean, median, mode, range