

Subject Group Overview: 7th Grade Mathematics, Year 2

Unit Title, MYP Year, Duration, Teacher,	Key Concept	Related Concept(s)	Global Context	Statement of inquiry	MYP Subject Group Objectives	ATL Skills	Content (topics, knowledge, skills)
Number Sense Year 2 30 hours	Relationships	Pattern, Representation	Scientific and technical innovations:	Patterns in the real world can be represented as relationships that identify processes and models in finding solutions.	A – Knowing and understanding <ul style="list-style-type: none"> i. select appropriate mathematics when solving problems ii. apply the selected mathematics successfully when solving problems iii. solve problems correctly in both familiar and unfamiliar situations in a variety of contexts. C – Communicating <ul style="list-style-type: none"> i. use appropriate mathematical language (notation, symbols and terminology) in both oral and written explanations ii. use appropriate forms of mathematical representation to present information iii. move between different forms of mathematical representation D – Applying mathematics in real-life contexts <ul style="list-style-type: none"> i. identify relevant elements of authentic real-life situations ii. select appropriate mathematical strategies when solving authentic real-life situations iii. apply the selected mathematical strategies successfully to reach a solution 	Thinking, communication	Adding and subtracting integers with same and different signs, Multiply and divide integers, Add, subtract, multiply and divide rational numbers, Apply rational number operations to real-life situations

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<p>Ratios And Proportions Year 2 25 hours</p>	<p>Relationships</p>	<p>Pattern, Representation</p>	<p>Scientific and technical innovation; models, processes and solutions</p>	<p>Patterns in the real world can be represented as relationships that identify processes and models in finding solutions.</p>	<p>A – Knowing and understanding</p> <ul style="list-style-type: none"> i. select appropriate mathematics when solving problems ii. apply the selected mathematics successfully when solving problems iii. solve problems correctly in both familiar and unfamiliar situations in a variety of contexts. <p>B – Investigating patterns</p> <ul style="list-style-type: none"> i. select and apply mathematical problem-solving techniques to discover complex patterns ii. describe patterns as general rules consistent with findings iii. prove, or verify and justify, general rules. <p>D – Applying mathematics in real-life contexts</p> <ul style="list-style-type: none"> i. identify relevant elements of authentic real-life situations ii. select appropriate mathematical strategies when solving authentic real-life situations iii. apply the selected mathematical strategies successfully to reach a solution 	<p>Thinking, communication, social</p>	<p>Unit rate, constant rate of change and proportional and non-proportional relationships, Percent change, applications of percent</p>
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<p>Expressions, Equations and Inequalities Year 2 25 hours</p>	<p>Systems</p>	<p>Patterns</p>	<p>Orientation in space and time</p>	<p>Learning patterns' relationships can lead to better understanding in orientation in space and time.</p>	<p>A – Knowing and understanding</p> <ul style="list-style-type: none"> i. select appropriate mathematics when solving problems ii. apply the selected mathematics successfully when solving problems iii. solve problems correctly in both familiar and unfamiliar situations in a variety of contexts. <p>C – Communicating</p> <ul style="list-style-type: none"> i. use appropriate mathematical language (notation, symbols and terminology) in both oral and written explanations ii. use appropriate forms of mathematical representation to present information iii. move between different forms of mathematical representation <p>D – Applying mathematics in real-life contexts</p> <ul style="list-style-type: none"> i. identify relevant elements of authentic real-life situations ii. select appropriate mathematical strategies when solving authentic real-life situations iii. apply the selected mathematical strategies successfully to reach a solution 	<p>Thinking, Communication, research</p>	<p>Algebraic expressions, One-step equations with rational coefficient, writing and solving two-step equations, writing and solving one and two-step inequalities.</p>
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<p>Geometry Year 2 30 hours</p>	<p>form</p>		<p>Orientation in space and time</p>	<p>Exploring relationships will lead to their orientation in space and time</p>	<p>A – Knowing and understanding</p> <ul style="list-style-type: none"> i. select appropriate mathematics when solving problems ii. apply the selected mathematics successfully when solving problems iii. solve problems correctly in both familiar and unfamiliar situations in a variety of contexts. <p>B – Investigating patterns</p> <ul style="list-style-type: none"> i. select and apply mathematical problem-solving techniques to discover complex patterns ii. describe patterns as general rules consistent with findings iii. prove, or verify and justify, general rules. <p>D – Applying mathematics in real-life contexts</p> <ul style="list-style-type: none"> i. identify relevant elements of authentic real-life situations ii. select appropriate mathematical strategies when solving authentic real-life situation iii. apply the selected mathematical strategies successfully to reach a solution 	<p>Thinking, social, research</p>	<p>Similar shapes and scale drawings, geometric drawings, cross sections, angle relationships, circumference, area of circles, area of composite figures, surface area and volume</p>
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