

IB Subject Group Overview

Content : Math		Grade: 7th						
Unit Title	MYP Key Concept	MYP Related Concepts	MYP Global Context	Statement of Inquiry	MYP Objectives	ATL Skills	Content (topics, knowledge, skills, and outcomes)	Assessment
Unit 1: Operations with rational numbers	Relationship	Mathematics -Model -Representation	Personal and cultural expression	Relationships model cultural expression by using different representations	C: Communicating v.)organize information using a logical structure. D: Applying mathematics in real-life contexts iii.) apply the selected mathematical strategies successfully to reach a solution	Self-management III. Organization skills Managing time and tasks effectively • Use appropriate strategies for organizing complex information Thinking X. Transfer skills Utilizing skills and knowledge in multiple contexts • Combine knowledge, understanding	MATH.7.3A MATH.7.3B	MasterChef Jr. Assessment Process – Student will multiply and divide recipes to accommodate different situations Student will find the unit rate to make one serving for the judges of Master Chef Jr. Product – Students will make a recipe book with converted recipe and single serving recipe

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						g and skills to create products or solutions		
Unit 2: Equations and Inequalities/ Financial Literacy - My Career	Logic Perspective	Mathematics -Model -Justification	Identities and relationships	Exploring different perspectives by using models can help justify roles and life style choices.	B: Investigating patterns iii.) verify and justify relationships and/or general rules.	Research VI. Information literacy skills Finding, interpreting , judging and creating information • Access information to be informed and inform others Thinking VIII. Critical thinking skills Analysing and evaluating issues and ideas • Gather and	7.10A,B,C 7.4 D 7.11 A,B	My Career: The Ties between Financial Literacy and Proportional Reasoning Goal – Exploring different perspectives by using models can help justify roles and life style choices. t Create a poster with background information on your future career. Your poster must include: Facts about your career , The average rate a professional in your career

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						<p>organize relevant information to formulate an argument</p> <ul style="list-style-type: none"> • Consider ideas from multiple perspectives 		<p>makes per hour (unit rate) , an equation for different type of shift options (write and solve equations) and an explanation on which shift you would choose based on a logical justification (write and solve inequalities).</p>
Unit 3: Linear Relationships and Scale Drawings	Change Form	Mathematics - Measurements	Orientation in space and time	Patterns orient scaled measurement to improve the change in form.	<p>A: Knowing and understanding</p> <p>ii. apply the selected mathematics successfully when solving problems</p> <p>B: Investigating patterns</p> <p>i. select and apply</p>	<p>Thinking</p> <p>IX. Creative thinking skills</p> <p>Generating novel ideas and considering new perspectives</p> <ul style="list-style-type: none"> • Apply existing knowledge to generate new ideas, 		<p>Candy Bar Enlargement / Comic Strip</p>

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					<p>mathematical problem-solving techniques to discover complex patterns</p> <p>ii. describe patterns as relationships and/or general rules consistent with finding</p>	<p>products or processes</p>		
<p>Unit 4: Geometric Applications</p>	<p>Creativity, Logic</p>	<p>Mathematics: Simplification; Space</p>	<p>Fairness and Development</p>	<p>Creativity and logic can help develop a simplified use of space</p>	<p>Applying mathematics in real-life contexts:</p> <p>(a) identify relevant elements of authentic real-life situations</p> <p>(b) select appropriate mathematical strategies when solving authentic real-life situations</p>	<p>IX. Creative thinking skills</p> <p>Generating novel ideas and considering new perspectives</p> <ul style="list-style-type: none"> • Use brainstorming and visual diagrams to generate new ideas and inquiries 	<p>MATH.7.1B</p> <p>MATH.7.1D</p> <p>MATH.7.8A</p> <p>MATH.7.9A</p> <p>MATH.7.9D</p>	<p>Goal- Create a scaled model of a tiny house using limited space.</p>

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						<p>X. Transfer skills Utilizing skills and knowledge in multiple contexts</p> <ul style="list-style-type: none"> • Inquire in different contexts to gain a different perspective <p>Self-management</p>		
<p>Unit 5: Bricks , Sticks and Measurements : 3 Little Pigs</p>	<p>Global interaction</p>	<p>Mathematics: Quantity</p> <p>Sciences: Patterns</p>	<p>Fairness and Development</p>	<p>By analyzing trends in natural environments, we can quantify developing patterns.</p>	<p>Interdisciplinary</p> <p>A: Disciplinary grounding: demonstrate relevant disciplinary factual, conceptual and/or procedural knowledge.</p> <p>Mathematics</p>	<p>Mathematics, Investigating patterns: describe patterns as relationships and/or general rules consistent with findings</p> <p>Sciences, Reflecting on the impacts of science: describe the ways in which science is</p>	<p>MATH.7.6B</p> <p>MATH.7.6C</p> <p>MATH.7.6D</p> <p>Science 7.8(A)</p>	<p>Goal: Your task is to lessen the likelihood of your new home being destroyed by a natural disaster.</p> <p>Performance: You have to research natural disasters in your assigned region, create a data</p>

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					<p>B. Investigating patterns: describe patterns as relationships and/or general rules consistent with findings</p> <p>Sciences D: Reflecting on the impacts of science</p>	<p>applied and used to address a specific problem or issue</p> <p>Communication skills: <i>Reading, writing and using language to gather and communicate information</i></p> <ul style="list-style-type: none"> Organize and depict information logically <p>Information literacy skills: <i>Finding, interpreting, judging and creating information</i></p> <ul style="list-style-type: none"> Collect and analyse data to identify solutions and make informed decisions Process data and report results 		<p>analysis presentation to present to the client showing the likelihood of the regional natural disasters in that particular area, and build a prototype of the home you plan to design for his company.</p>
Unit 6: Planning your future/	Communication Development	<p>Mathematics</p> <ul style="list-style-type: none"> change 	Globalization and sustainability	Intentional communication can	C: Communication	Communication	7.1D communicate	Completed 7th grade survival kit.

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service learning		<ul style="list-style-type: none"> Generalization 		develop commonality among diverse groups of students which can lead to change in preconceived generalizations.	v. organize information using a logical structure. D: Applying mathematics in real-life contexts i. identify relevant elements of authentic real-life situations	I. Communication skills Reading, writing and using language to gather and communicate information • Organize and depict information logically Social II. Collaboration skills Working effectively with others • Help others to succeed	mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate ;	
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The prescribed **MYP Key Concepts** for a subject area must be covered over the course of the year by every teacher of that subject.

MYP Related Concepts must be taught over the course of the MYP program.

MYP Global Context must be covered over the course of the year by each teacher.

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The **Statement of Inquiry** is constructed for a unit by combining a key concept, one or more related concepts, and a global context in a meaningful statement that the students can understand.

MYP assessment requires teachers to assess the prescribed subject-group objectives using the assessment criteria for each subject group in each year of the program. **MYP Objectives** and strands must be assessed twice per school year by each teacher.

MYP ATL Skills must show a progression and be covered over the course of the MYP program.

Content includes the topics, knowledge, skills and outcomes required by the state and district.

Summative assessment tasks should be directly linked to the statement of inquiry and provide varied opportunities for students to demonstrate their, knowledge, understanding, and skills.

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