Teacher(s)		Subject group and discipline	Year 7 Maths		
Unit title	Strand 2 Multiplication and Division	MYP year	1	Unit duration (hrs)	

Inquiry: Establishing the purpose of the unit

Key concept	Related concept(s)	Global context				
		Orientations in space and time				
Relationships	Quantity, representation	Displacement, Exchange				
Statement of inquiry						
Relationships between quantities and representations allow for displacement and exchange						
Inquiry questions						
Factual –						
How do you multiply?						
How do you divide?						
Conceptual—						
How are the ways that we represent quantities related?						
In what way are multiplication and division related?						
How can we represent a real distance of (say) 1km on a single sheet of paper?						
Debatable—						
Why do different countries have different money systems?						
Should teachers pay to go on school trips?						
How accurate are assumptions made using estimation?						

Objectives	Summative assessment		
	Outline of summative assessment task(s) including assessment criteria:	Relationship between summative assessment task(s) and statement of inquiry:	
A i: select appropriate mathematics when solving simple problems in familiar situationsA ii apply the selected mathematics successfully when solving these problems	Unit test: Investigative task:	Students complete an assessment of the basic Math skills studied in Unit 1 and 2.	
A iii solve problems correctly in a variety of contexts.	representations allow for displacement and exchange		
	R: Teachers in a school		
	A: Students and parents of the school		
D i identify relevant elements of authentic real-life situations	S: They are planning a trip and have a choice of 3 different trips. They analyse the different costs of the trip and then supervise the students in raising money to help fund the trip. Finally they start planning an oversees trip for next year with the added complication of currency exchange rates. P: Analysis of costs concerned with trips and fund raising activities	Students gain an appreciation of the relationships between costs of a trip and the travel distance and admission. They also investigate how units of currency in different countries allow for different representations of the same quantity and how the exchange rate can affect the ability to move around.	
D ii select appropriate mathematical strategies when solving authentic real-life situations			
D iii apply selected mathematical strategies successfully to reach a solution			
D iv justify the degree of accuracy of a solution			
D v justify whether the solution makes sense in the context of the real-life situation	S: Criterion D		

Approaches to learning (ATL)

Communication skills:

Make inferences and draw conclusions – during the summative assessment, students will need to consider the evidence and decide what was happening (draw conclusions) and think why it was done in that way (make inferences)

Use and interpret a range of discipline-specific terms and symbols - in particular multiplication, division factor, multiple, HCF, LCM, quotient, remainder, BIDMAS,

Understand and use mathematical notation

Collaboration skills:

Students will listen actively to other perspectives and ideas.

Organisation skills

Students will need to bring equipment to class (in particular calculators)

Students will need to use technology (in particular calculators) effectively and productively.

Affective Skills

Students will need to practice 'bouncing back' after they make mistakes

Information literacy skills:

Students will collect and analyse to identify solutions and make informed decisions,

Critical thinking skills:

Students will rest generalisations and conclusions, in particular during the summative assessment task.