	Maths									
Topic	Key Concepts	Related Concepts	Theme	ATL skills	Lines of Inquiry	Summative Assessments	Assessment Objectives			
1 - Multi-Digit Whole Numbers 1A - Numbers to 10 Million 1B - Multiply Tens, Hundreds, Thousands 1C - Divide Tens, Hundreds and Thousands.  2 - The Four Operations with Whole Numbers 2A - Order of Operations 2B - Multiply by a 2 Digit Fluently 2C - Word Problems Multiplying by a 2 Digit Number 2D - Divide by Tens 2E - Divide by a 2 Digit Number 2F - Word Problems: Dividing by a 2 Digit Number 2G - Word Problems: Dividing by a 2 Digit Number	Forn Function	Number Addition Subtrtaction Multiplication Division Decimals Percentages	How we Organise Ourselves	Self management Organizational skills Research Thinking	- Different processes of decision making - Impact of our decisions on the economyThe connections between local, national, and global economies	Singapore Maths Unit Review - End of unit assessments (chapter, cumulative and end-of-year assessments). Assessments to be aligned with Singapore mathematics and adapted from the online teachers platform.	To state the value in each digit in multi-digit numbers To be able to multiple and divide numbers by 10, 100 and 1000 To use whole number exponents to write powers of 10 To be able to use ordewr of operations to solve a numerical expression To be able to multiply a 3 and 4 digit number by a 2 digit number To divide a 2 digit number by a 2 digit number To solve three step real life problems involving the four operations with whole numbers			



3 - Addition &	Form	Measurement	How the	Communication	- Characteristics	Singapore Maths Unit Review - End of unit	To be able to add and subtract two unlike fractions To solve one step
Subtraction of	Function	Volumne &	World Works	ICT skills (using	and properties	assessments (chapter, cumulative and end of	word problems involving addition and subtraction of unlike fractions To
Fractions	Perspective	Capacity		technology to gather,	of solids, liquids	year assessments). Assessments to be aligned	add and subtract mixed numbers without renaming To solve one step
3A - Add &				investigate and	and gases	with Singapore mathematics and adapted from	world problems involving the addition and subtraction of mixed
Subtract Unlike				communicate	- How and why	the online teachers platform.	fractions To be able to use visual models to multiply fractions of whole
Fractions				information)	matter changes		numbers To be able to use visual models to multiply two mixed and
3B - Add &					- Manipulating		improper fractions To be able to divide a whole number by a unit
Subtract Mixed				Thinking	materials to		fraction
Numbers				Transfer skills (using	affect change		
3C - Word				skills and knowledge in			
Problems				multiple contexts)			
4 - Multiplication				Research			
& Division of				Information-literacy			
Fractions				skills (data gathering and			
4A - Product &				recording, synthesising			
Fractions & Whole				and interpreting,			
Numbers				evaluating and			
4B - Priduct of				communicating)			
Fractions							
4C - Product of							
Mixed Numbers							
4D - Fraction as							
Division							
4E - Divide a							
Fraction by a							
Whole Number							
4F - Divide a							
Whole Number by							
a Unit Fraction							



5 - Word	Change	Measurement	How We	Communication	- Forms of	Singapore Maths Unit Review - End of unit	To draw bar models to understand real-world problems involving
Problems: The	Form	Division Modelling	Express	Literacy skills (reading,	persuasive	assessments (chapter, cumulative and end of	fractions To solve real-world problems involving the four operations of
Four Operations	Connection		Ourselves	writing and using	communication	year assessments). Assessments to be aligned	fractions To draw bar models to understand real-world problems
of Fractions				language to gather and	- Reasons for	with Singapore mathematics and adapted from	involving finding a fraction of a fraction To read and write decimals to
5A - Word				communicate	communicating	the online teachers platform.	thousandths To compare and order decimals to thousandths To express
Problems				information)	in various		decimals as a fraction in its simplest form
					formats		_
6 - Decimals				Social	- Impact on		
6A - Thousandths				Developing positive	audience		
6B - Rounding				interpersonal			
Decimals				relationships and			
				collaboration skills (using			
				self-control, managing			
				setbacks, supporting			
				peers)			
				1 /			
				Thinking			
				Creative-thinking skills			
				(generating novel ideas			
				and considering new			
				perspectives)			
			O				
7 - The Four	Change						
	0	Measurement	Sharing The	Research	- Challenges	Singapore Maths Unit Review - End of unit	To be able to multiply and divide decimals to hundereths and
Operations of	Form	Division Modelling	Planet	Ethical use of	and risks for	assessments (chapter, cumulative and end of	thousandths To explain a pattern with decimals whren multiplying or
Operations of Decimals	0	1	_	Ethical use of media/information	and risks for children	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step
Operations of Decimals 7A - Addition &	Form	1	_	Ethical use of media/information (understanding and	and risks for children - Ways in which	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert
Operations of Decimals 7A - Addition & Subtraction of	Form	1	_	Ethical use of media/information (understanding and applying social and	and risks for children - Ways in which organizations	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems
Operations of Decimals 7A - Addition & Subtraction of Decimals	Form	1	_	Ethical use of media/information (understanding and	and risks for children - Ways in which organizations work to protect	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)	and risks for children - Ways in which organizations work to protect children	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti	and risks for children - Ways in which organizations work to protect children	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals 7D - Conversion of	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering the process of learning)	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals 7D - Conversion of Measurements	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering the process of learning)  Communication	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals 7D - Conversion of	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering the process of learning)  Communication Exchanging-information	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals 7D - Conversion of Measurements Units	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering the process of learning)  Communication Exchanging-information skills (listening,	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals 7D - Conversion of Measurements Units 8 - Word	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering the process of learning)  Communication Exchanging-information	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals 7D - Conversion of Measurements Units  8 - Word Problems: the	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering the process of learning)  Communication Exchanging-information skills (listening,	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals 7D - Conversion of Measurements Units  8 - Word Problems: the Four Operations	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering the process of learning)  Communication Exchanging-information skills (listening,	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals 7D - Conversion of Measurements Units  8 - Word Problems: the Four Operations of Decimals	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering the process of learning)  Communication Exchanging-information skills (listening,	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word
Operations of Decimals 7A - Addition & Subtraction of Decimals 7B - Multiplication & Subtraction of Decimals 7C - Division of Decimals 7D - Conversion of Measurements Units  8 - Word Problems: the Four Operations	Form	1	_	Ethical use of media/information (understanding and applying social and ethical technology)  Thinking Reflections/metacogniti on skills (reconsidering the process of learning)  Communication Exchanging-information skills (listening,	and risks for children - Ways in which organizations work to protect children - Rights to equal	assessments (chapter, cumulative and end of year assessments). Assessments to be aligned with singapore mathematics and adapted from	thousandths To explain a pattern with decimals whren multiplying or dividing when multiplying by tenths or hundredths To solve one step word problems involving multiplication and division of decimals Convert larger to smaller measurement units To solve two-part word problems involving the four operations of decimals To solve multi step word



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9 - Volume	Change	Shapes	Where We Are	Thinking Skills	Exhibition	Singapore Maths Unit Review - End of unit	To recognise volume of solids in cubit units To compare volume of
9A - Measure &	Connection		In Place and	Critical-thinking skills		assessments (chapter, cumulative and end of	solids in cubic units To calculate the volume of rectangular prisms To
Compare Volumes	Causation	Multiplication Area	Time	(analysing and evaluating		year assessments). Assessments to be aligned	calculate the volume of composite solids To solve worded problems
9B - Volume &	Form	Angles		issues and ideas)		with Singapore mathematics and adapted from	involving the calculation of volume of composite solids To identify
Rectangular Prisms	Function					the online teachers platform.	equilateral, scalene and isosceles triangles To be able to classify triangles
9C - Volume of	Perspective			Communication Skills			by their side lengths and angles To classify quadrilaterals by their
Composite Solids	Reflection			ICT skills (using			properties
9D - Word				technology to gather and			Î Î
Problems - Volume				investigate information)			
of Solids				, , , , , , , , , , , , , , , , , , , ,			
01 001140							
10 - Properties &							
Classification of							
2D Shapes							
10A - Properties &							
Classifications of							
Triangles							
O .							
10B - Properties &							
Classification of							
Quadrilaterals							
11 - Line Plots &	Perspective	Timelines	Who We Are	Self management	- Biological,	Singapore Maths Unit Review - End of unit	To be able to construct a line plot and represent a set of fractional
The Coordinate	Form			States of mind	emotional and	assessments (chapter, cumulative and end of	measurement data To locate and plot point on a coordinate plane using
Plane	Connection			(mindfulness,	social wellbeing	year assessments). Assessments to be aligned	ordered pairs To be able to interpret a line graph to solve problems To
11A - Line Plots				perseverance, emotional	- Changes that	with singapore mathematics and adapted from	indetify the rule of number patterns To generate two number patterns
11B - The				management,	occur during	the online teachers platform.	given the rules To identify relationships between two terms
Coordinate Plane				self-motivation,	adolescence/pu	The state of the s	Provide the control of the control o
11C - Line Graphs				resilience)	berty		
The Lanc Grapis				reomence)	- How		
12 - Number				Social	relationships		
Patterns &				Developing	contribute to		
Relationships				social-emotional	our sense of self		
12A - Number				intelligence	our sense or sen		
				miemgence			
Patterns &							
Relationships							

## **Taking Action**

Taking action is one of the five essential elements of the PYP and an intricate part of the inquiry cycle which could be interpreted as a "conclusion" to learning. When taking action, students make connections to new knowledge they have acquired and apply their skills in everyday life.

