

Maths

Topic	Key Concepts	Related Concepts	Theme	ATL skills	Lines of Inquiry	Summative Assessments	Assessment Objectives
1 - Numbers to 1000 1A - Count to 1000 1B - Number Patterns 1C - Compare & Order Numbers 1D - Number Lines 1E - Count Money	Form Function	Time - Timelines	Who We Are	Thinking Skills Reflections/metacognition skills (reconsidering the process of learning) Communication Skills Literacy skills (reading, writing and using language to gather and communicate information) Self Management Skills States of mind (mindfulness, perseverance, emotional management, self-motivation, resilience)	- Factors that influence self-identity - How a growth mindset develops a learner - Our responsibility toward others	Singapore Maths Unit Review - End of unit assessments (chapter and cumulative assessments). Assessments to be aligned with singapore mathematics and adapted from the online teachers platform.	Write a three digit number in standard form, expanded form and in words Compare numbers within 1000 using base 10 sets and place value charts Calculate the amount in a set of bills by counting in 5's, 10's or 100's



<p>2 - Addition within 1000</p> <p>2A - Add fluently within 20</p> <p>2B - Add Tens or Hundreds</p> <p>2C - Add without renaming</p> <p>2D - Add with renaming</p> <p>2E - Add Three or Four 2 Digit Numbers</p> <p>3 - Subtraction within 1000</p> <p>3A - Subtract Fluently within 20</p> <p>3B - Subtract Tens or Hundreds</p> <p>3C - Subtract without Renaming</p> <p>3D - Subtract with Renaming</p> <p>3E - Relate Addition & Subtraction</p>	<p>Form Function Perspective</p>	<p>Measurement Time Shapes</p>	<p>How The World Works</p>	<p>Research Skills</p> <p>Media literacy skills (interacting with media to use and create ideas and information)</p> <p>Information-literacy skills (formulation and planning, data gathering and recording, synthesising and interpreting, evaluating and communicating)</p> <p>Self Management Skills</p> <p>Organization skills (managing time and tasks effectively)</p>	<p>- Structure of Earth's land and water</p> <p>- How Earth revolves and rotates</p> <p>- How natural forces have changed the Earth's physical features</p>	<p>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.</p>	<p>Mentally add 100's within 10000 Add a three-digit and two digit number without renaming Add up to four two-digit numbers using different strategies</p>
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4 - Addition & Subtraction Using Bar Models 4A - Sum & Difference 4B - Part Whole Model 4C - Comparison Model 4D - Word Problems 5 - Length 5A - Measure & Estimate Length in Metric Units 5B - Measure & Estimate Length in Customary Units 5C - Compare & Order Lengths 5D - Word Problems	Change Form Connection		How We Organise Ourselves	Communication Skills Exchanging-information skills (listening, interpreting, speaking) ICT skills (using technology to gather, investigate and communicate information) Social Skills Developing positive interpersonal relationships and collaboration skills (using self-control, managing setbacks, supporting peers)	- How communities are organised - How different communities are connected - Our responsibility in a community	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.	Solve one-step word problems involving addition and subtraction by drawing part whole models Solve two-part word problems involving addition and subtraction by drawing bar models Measure and estimate lengths in centimetres, metres, inches, yards and feet Solve one step and two step worded problems involving lengths
6 - Multiplication 6A - Add Equal Groups 6B - Even & Odd Numbers 6C - Skip Count by 2s, 5s, 10s 6D - Multiplication	Change Form Connection	Timelines Measurement -Volume and Capacity	Sharing The Planet	Research Skills Media literacy skills (interacting with media to use and create ideas and information) Ethical use of media/information (understanding and applying social and ethical technology) Self Management Skills Organization skills (managing time and tasks effectively)	- How ecosystems support life - The interdependent relationships in ecosystems - How humans affect the balance	Singapore Maths Unit Review - End of unit assessments (chapter and cumulative assessments). Assessments to be aligned with singapore mathematics and adapted from the online teachers platform.	Identify equal rows of objects and use addition to find the total number of objects Solve word problems involving equal groups



7 - Time 7A - Tell Time 7B - Hours & Minutes 8 - Data 8A - Picture Graphs 8B - Bar Graphs 8C - Line Plots	Change Connection Causation	Timelines	Where We Are In Place and Time	Communication Skills Exchanging-information skills (listening, interpreting, speaking) Thinking Skills Critical-thinking skills (analysing and evaluating issues and ideas) Transfer skills (using skills and knowledge in multiple contexts)	- Reasons why people move - How migrations leads to change - Personal immigration histories	Singapore Maths Unit Review - End of unit assessments (chapter and cumulative assessments). Assessments to be aligned with singapore mathematics and adapted from the online teachers platform.	To be able to tell and write time to the nearest five minutes Use am and om to tell time Tell time before and after the hour Draw a pictograph to show data Read and interpret bar graphs Read and interpret line plots
9 - Shapes 9A - 2D & 3D Shapes 9B - Partition 2D Shapes	Perspective Form Connection		How We Express Ourselves	Social Skills Developing social-emotional intelligence Thinking Skills Creative-thinking skills (generating novel ideas and considering new perspectives)	- How people express themselves through stories - The creative process - Different ways stories can be expressed	Singapore Maths Unit Review - End of unit assessments (chapter and cumulative assessments). Assessments to be aligned with singapore mathematics and adapted from the online teachers platform.	Identify 2D shapes by vertices, sides and angles Identify faces, edges and vertices of 3D shapes Partition a circle, rectangle or triangle into 2, 3 or 4 parts Describe equal part of 2D shapes using halves, thirds and fourths

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.

