

# Mathematics

Topic	Key Concepts	Related Concepts	Theme	ATL skills	Lines of Inquiry	Summative Assessments	Assessment Objectives
<b>Count and Show numbers to 5</b> <b>Write numbers to 5</b> <b>Numbers to 10</b>	Form Function	Counting Presenting numbers Identifying amounts	Who We Are	<p>Communication Skills Exchanging-information skills (listening, interpreting, speaking)</p> <p>Social Skills Developing positive interpersonal relationships and collaboration skills (using self-control, managing setbacks, supporting peers) Developing social-emotional intelligence</p> <p>Self-Management Skills States of mind (emotional management, self-motivation, resilience).</p>	<p>1) Roles and behaviours in relationships</p> <p>2) Similarities and differences in our families and friends</p> <p>3) Effects relationships have on us</p>	Singapore Maths Unit Review - End of unit assessments (cumulative assessments). Assessments to be aligned with Singapore mathematics and adapted from the online teacher's platform. Teachers will also assign concrete assessments allowing students to demonstrate their mathematical understanding through the use of using mathematical manipulatives within given activities.	Students to be able to count and illustrate numbers from 1-5 in different ways. Student to be able to explain and show zero
<b>Shapes</b> <b>Compare numbers to 10</b>	Form Function Perspective	Shapes Lines of symmetry Measurement	Where We Are In Place And Time	<p>Communication Skills Exchanging Information (Speaking, Listening, Interpreting)</p> <p>Social Skills Developing social-emotional intelligence</p> <p>Thinking Skills Critical-thinking skills (analysing and evaluating issues and ideas) Reflections/metacognition skills (reconsidering the process of learning)</p>	<p>- How homes reflect our culture and needs</p> <p>- Signs and symbols connect our homes to our environment</p> <p>- Homes around the world</p>	Singapore Maths Unit Review - End of unit assessments (cumulative assessments). Assessments to be aligned with Singapore mathematics and adapted from the online teacher's platform. teacher's will also assign concrete assessments allowing students to demonstrate their mathematical understanding through the use of using mathematical manipulatives within given activities.	To be able to order numbers and count on from any number within 10 To be able to order numbers and count back from any number within 10



<p><b>- Ways to make and break numbers to 10</b> <b>- Numbers to 20</b></p>	<p>Change Form Connection</p>	<p>Time - Timelines</p>	<p>Sharing The Planet</p>	<p>Self-Management Skills States of mind (mindfulness, perseverance)  Communication skills ICT skills (using technology to gather, investigate and communicate information)  Research Skills Information-literacy skills (formulation and planning, data gathering and recording, synthesising and interpreting, evaluating and communicating) Media literacy skills (interacting with media to use and create ideas and information)  Thinking skills Critical-thinking skills (analysing and evaluating issues and ideas) Reflections/metacognition skills (reconsidering the process of learning)</p>	<p>- Different plants and animals - Features of habitats - Protecting living things and their habitats</p>	<p>Singapore Maths Unit Review - End of unit assessments (cumulative assessments). Assessments to be aligned with Singapore mathematics and adapted from the online teacher's platform. teacher's will also assign concrete assessments allowing students to demonstrate their mathematical understanding through the use of using mathematical manipulatives within given activities.</p>	<p>Students to be able to count and illustrate numbers from 1-20 in different ways. To be able to write numbers to 20</p>
<p><b>-Measurement</b> <b>- Addition</b></p>	<p>Change Form Connection</p>		<p>How We Express Ourselves</p>	<p>Thinking Skills Creative-thinking skills (generating novel ideas and considering new perspectives)  Communication Skills Literacy skills (reading, writing and using</p>	<p>- Elements of an effective story - Creating and telling our own stories - How and why people tell stories</p>	<p>Singapore Maths Unit Review - End of unit assessments (cumulative assessments). Assessments to be aligned with Singapore mathematics and adapted from the online teacher's platform. teacher's will also assign concrete assessments allowing students to demonstrate their mathematical understanding through the use of using</p>	<p>To be able to put together two groups to show addition. To add numbers within 5 and 10</p>



				language to gather and communicate information)  Research skills Media literacy skills (interacting with media to use and create ideas and information)		mathematical manipulatives within given activities.	
<b>Subtraction - Addition &amp; Subtraction - Numbers to 100</b>	Change Connection Causation	Position & Direction	How The World Works.	Thinking Skills Transfer skills (using skills and knowledge in multiple contexts)  Research Skills Information-literacy skills (formulation and planning, data gathering and recording, synthesising and interpreting, evaluating and communicating) Ethical use of media/information (understanding and applying social and ethical technology)  Self-Management Skills Organization skills (managing time and tasks effectively)	- How objects may be moved - How forces act on objects - How we use our knowledge about forces in everyday objects	Singapore Maths Unit Review - End of unit assessments (cumulative assessments). Assessments to be aligned with Singapore mathematics and adapted from the online teacher's platform. Teachers will also assign concrete assessments allowing students to demonstrate their mathematical understanding through the use of using mathematical manipulatives within given activities.	To be able to take away from a group to show subtraction. To subtract numbers within 5 and 10.

### 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.

**Please note:** At times areas of the curriculum will change based on the learning needs and interests of the students.

